



Web Site: www.mtjengineering.com
313 Price Place, #205 • Madison, WI 53705
Office: 608 238 5000 • Cell: 608 669 5009
mtjeng@sbcglobal.net

ROUNABOUT ENGINEERING SERVICES

Planning • Design • Evaluation • Outreach • Training

MTJ Engineering

MTJ Engineering's principal engineer is Mark T. Johnson, P.E.

A nationally recognized expert in roundabout solutions, since 1995 he has delivered more than 300 roundabout designs, reviews and evaluations in 24 states and 2 Canadian provinces.

Areas of Expertise

- Roundabout Analysis & Design
- Alternatives Development
- Context Sensitive Solutions
- Signing and Marking Design/Layout
- Design Training Seminars
- Public Outreach

Project Highlights

Since 2004, MTJ Engineering, LLC has played a major role in upgrading transportation facilities for numerous communities to keep traffic flowing and to meet constituent demands for safe, attractive roadways that accommodates all modes of transportation.

Using state-of-the art and dependable modern roundabout design principles together with traffic and roadway planning and design expertise applications, MTJ Engineering has contributed to hundreds of successful roadway and intersection improvement projects including these recently constructed projects (please see attached expanded listing of projects):

- **Wal-Mart Super Center Roundabout - Monona, WI:** MTJ Engineering delivered an innovative roundabout design to provide access for a new 225,000 sq. ft urban shopping center. A key requirement for allowing redevelopment of this site, this popular roundabout keeps traffic moving safely in this high-traffic area and has improved its overall appearance.
- **U.S. 23/Lee Road – Michigan:** MTJ Engineering completed the analysis and provided roundabout expertise for this very complex and high capacity system of roundabouts currently in the U.S. The project won the prestigious 2008 Eminent Conceptor Award for engineering excellence from the American Council of Engineering Companies (ACEC) Michigan.

Roundabout Engineering Excellence

Building on 15 years of traffic and transportation engineering experience, Mark T. Johnson, P.E. offers distinct expertise in complex high volume modern roundabout planning and design based on proven design principles and techniques. His technical design methodology combined with effective communication and presentation skills have proven particularly valuable in delivering

solutions to complex traffic problems that are well-liked by the public, government representatives, elected officials and other stakeholders.

Why Roundabouts

Well-designed modern roundabouts provide communities with new opportunities to accomplish effective traffic solutions that address competing needs for efficient transportation operations: capacity, safety, community character, business and residential access, and accessibility and safety of all users. Roundabouts can accommodate bicyclists, pedestrians as well as vehicle traffic safely and efficiently.

About Mark T. Johnson, P.E.

Specializing in state of the art modern roundabout design, Mark Johnson has worked hard to gain unparalleled experience and knowledge in this increasingly applied method of traffic control.

Experience & Credentials

He launched MTJ Engineering, LLC in 2004, following 12 years in public- and private-sector transportation engineering positions, including four years as a transportation development engineer for City of Loveland and three years with a transportation consultancy in Colorado and four years with the Wisconsin DOT. He has led the design or design review of over 300 roundabouts for private and public sector clients in 24 states and two Canadian provinces.

Mentored extensively by U.K. roundabout design expert Barry Crown, Mark's experience encompasses the full range of traffic flows and contexts, including low-speed to high-speed rural, and complex high volume multi-lane interchanges, and roundabouts in series.

He earned a B.S. in Civil & Environmental Engineering (Transportation Engineering emphasis) at the University of Wisconsin-Madison in 1993. His P.E. designation is registered in the states of Colorado, Wisconsin and Oregon. His professional affiliations include ITE and ASCE.

Nationally Recognized Expert

Mark has conceived and presented more than 17 design training seminars around the country to members of transportation agencies and private consultancies. He has presented at local, regional and national conference including TRB, ITE and ASCE. Furthermore, he developed a course on roundabout design for the University of Wisconsin-Madison Engineering Professional Development program.

Accomplishments

- MTJ Engineering's Mark Johnson is a primary author of the '*multi-lane*' design section of the re-write of the FHWA Roundabout Design Guide work effort, as part of the consultancy team providing these services.
- Selected for expert roundabout design and review services for projects in 24 states and two Canadian provinces serving many state, county and municipal roadway agencies.
- Has received the highest level of certification for complex roundabout design and review from the two states that presently have review requirements and certifications (WIDOT and MNDOT)

- Advanced the Wisconsin DOT roundabout program as a key team member for there Roundabout Design Guidance, and was given a Quality Service Award for his “dedication and significant efforts”.

Upcoming Papers and Presentations

- Presenter/Instructor for ITE Webinar on Modern Roundabouts July 29th 2009
- ITE Annual Conference, San Antonio, Texas August 2009

Previous Papers and Presentations

- ITE Annual Conference, Phoenix AZ March 2009
- TRB International Annual Conference, Washington DC, January 2009
- One-Day Design Seminar, Napa Valley, CA, November 2008
- TRB 8th National Conference on Access Management, Baltimore, MD, July 2008
- ITE Midwestern District Conference, Chicago, IL, July 2008
- TRB Roundabout Conference, Kansas City, MO, May 2008
- Midwest Transportation Planning Conference, Iowa City, IA, June 2008
- TRB Roundabout Conference, Vail, CO, May 2005
- 2003 ITE Technical Conference, FT Lauderdale, FL (240 in attendance)

Plus presentations on modern roundabouts to hundreds of local agencies, boards, councils, commission, public meetings, industry conventions and workshops over the last ten years.

Roundabout Training Design Workshops

- Instructor for a two-day UW-Madison Engineering Professional Development Modern Roundabout Course:
 - Las Vegas, NV – January 2008
 - Madison, WI – October 2007
 - Las Vegas, NV – January 2007
 - Madison, WI – October 2006
 - Madison, WI – February 2006
 - Madison, WI – February 2005
- Co-instructor for a two-day course, Chicago, IL, October 2005
- Instructor for a three-day design training, Arizona Dept of Transportation, Phoenix, AZ, June 2004
- Assistant instructor at a three-day Barry Crown training course, Denver, CO, May 2003
- Instructor for a half-day roundabout training course for Wisconsin DOT, 2002

- Instructor for a half-day roundabout training course for LaCrosse, WI MPO, June 2001

Overall Engineering Experience Summary:

- BS Civil Engineering -Transportation Engineering emphasis U.W.-Madison, 1993
- 1994-1998, City of Loveland CO, Transportation Development Review Engineer
- 1998-2001, Consulting firm of Balloffet, Fort Collins CO, Transportation Engineer
- 2001-2005, Wisconsin Department of Transportation, Madison WI, Transportation Engineer
- 2004 -Present, Founder, MTJ Engineering, LLC, Madison WI, Principle Transportation Engineer

Professional Registrations:

- Registered Professional Engineer in State of Colorado
- Registered Professional Engineer in State of Wisconsin
- Registered Professional Engineer in State of Oregon
- Member Institute of Transportation Engineers (ITE) since 1992 and ASCE since 2004



MTJ Engineering's Project Examples: These example projects illustrate MTJ Engineering's depth and breadth of experience including: *Rural - High Speed, and High Capacity Constrained Urban Complex Designs to include Interchanges and Roundabouts in series.*

MTJ Engineering's role in these projects as Designer or Peer Reviewer includes roadway and intersection planning analysis and design recommendations including concept feasibility thru final horizontal geometrics, signing and pavement markings of the roundabout design and surrounding roadway network. Primary areas of effort include: laneage needs (capacity), 'fastest path' determination (safety criteria), large vehicle turning checks, vertical design (including cross sections, profiles), transitions to existing, landscaping and grading, construction inspection, education and public outreach.

Rural – Ex-Urban and High Speed Designs

| Intersection location/ City & State | # of lanes/ (complexity) | Year | Current Status | My Role in project | Client Contact/ telephone # |
|---|--|------|--------------------------------------|--|---|
| USH 12/18 Dodgeville Roundabout State, City | Dual Lane entries, High complexity, Skewed and high speed approaches (65 mph) on US highway | 2007 | Currently under construction 2008 | Roundabout Designer responsible for capacity analysis and final horizontal geometrics, Provided review and oversight thru 100% including guidance on vertical profile control, pavement markings, signing, landscaping, lighting. Played key role in public outreach effort. Provided Construction Field Checks | Bill Strobel WisDOT, Southwest Region 608.246.7962 |
| STH 124 / CTH S, Chippewa Falls WI County, and State | Single Lane Moderate complexity, Skewed, High speed approaches | 2003 | Open | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics. Provided guidance on vertical profile sight distance, pavement markings, Played key role in public outreach effort | Greg Helgeson NW Region Wisconsin Dept. of Transportation 715-836-2980 |
| RE: State Trunk Highway (TH) 3 and Dakota County State Aid Highway (CSAH) 26 | Single-Dual Lane entries, High complexity, Skewed and high speed approaches | 2008 | Planning | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics. Provided guidance on vertical profile sight distance, pavement markings, | Paul Kachelmyer Mn/DOT- Metro Division 1500 W. County Road B2 Roseville MN 55113-3174 |
| STH 38 CTH K Racine WI State and County | Dual Lane entries, High complexity, Skewed and high speed approaches | 2006 | Open | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics. Provided guidance on vertical profile sight distance, pavement markings, Participated in public outreach effort, and field layout of pavement markings | Steve Huff WIDOT NE Region Project Engineer steve.hoff@dot.state.wi.us |
| Stafford and Borland intersection located in Clackamas County Oregon. | Dual Lane entries, moderate complexity, | 2007 | Open | Roundabout reviewer responsible for capacity analysis and providing final horizontal geometric recommendations. | Vince Hall, PE Clackamas County Department of Transportation Hall, Vince vincehal@co.clackamas.or.us |



Interchanges and Roundabouts in Series - (typically constrained conditions)

| Intersection location/ City & State Agencies | Description, # of lanes/ (complexity) | Year | Current Status | Role in project | Client Contact/ telephone # |
|---|--|------|---|--|--|
| US 23 Lee Road, Livingston County, MI County DOT State of MIDOT | Very-High Complexity Three roundabouts in series, two very closely spaced. Two, three and four-lane entries operating as a system. | 2006 | Open | Roundabout Designer responsible for capacity analysis and final horizontal geometrics, markings. Provided limited oversight thru 60% plans including guidance on vertical profile control, pavement markings, signing. Played key role in written communications with public roadway agencies in describing need for double roundabout vs 6 Leg. The project is the winner of the 2008 Eminent Conceptor Award for engineering excellence from the American Council of Engineering Companies (ACEC), MI. Winning for level of "complexity, innovation, client satisfaction, future value to the profession, and considerations for social, economic and sustainable design." | Michael Goryl, P.E., Traffic and Safety Engineer Tel: (517) 546-4250 mgoryl@livingstonroads.org |
| I-94 CTH P WI Pabst Farms Oconomowoc, WI State and City | Very-High Complexity Four roundabouts in series One to three- lane entries | 2007 | Planned for Construct ion ~2010 | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 30- 60- 90% Plans including guidance on vertical profile control, pavement markings, signing, landscaping, lighting. Participated in public outreach effort | Doug Cain, P.E. Project Manager WisDOT Southeast Region Tel: (262) 548-5603 douglas.cain@dot.state.wi.us |
| I-43 Moorland Road Interchange, New Berlin WI State, County and City | High Complexity 2 Roundabouts in series. First Three Lanner in WI | 2006 | Open | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 30-60- 90% plans including guidance on vertical profile control, pavement markings, signing, landscaping, lighting. Participated in public outreach effort | Al Gilbertson WisDOT, Southeast Region 262.548.8817 allen.gilbertson@dot.state.wi.us |



MTJ Engineering's Project Examples

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|--|--|------|---------------------|--|--|
| I-35 CAHS 2 Forest Lake, MN Interchange State, County and City | High Complexity 7 Roundabouts in series. 4 Closely spaced at interchange. Two - Three Lane Entries | 2006 | 30% Design Complete | Sub-Consultant to prime consultant (TKDA) provided Final Roundabout Design and review guidance on designs. Responsible for capacity analysis and final horizontal geometrics, including guidance on vertical profile control, pavement markings, signing, landscaping. | Ken E. Johnson, P.E. Metro Area Engineer, - Program Delivery - MNDOT Tel: (651) 582-1379 ken.johnson@dot.state.mn.us |
| STH 138 STH 14 Interchange Oregon, WI State and City | Moderate complexity Diamond Interchange Two-Lane Entries | 2006 | 30% Design Complete | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, thru 30%. | Dina R. Bertolini, P.E. DAAR Engineering, Inc. Madison, WI 53703 (608) 237-8699 dina.bertolini@daarengineering.com |
| TH 169/Valley View Road, Cities of Eden Prairie, Edina, and Bloomington, MN (Design) Interchange 4 Roundabouts in Series State and Cities | High Complexity 4 Roundabouts in series. Two - Three Lane Entries | 2006 | 30% Design Complete | Roundabout Designer/Reviewer responsible for capacity analysis, final horizontal geometrics, i pavement markings, signing, Participated in feasibility analysis, simulation calibration, educational seminar to MNDOT staff on project. | Victoria Nill, P.E., Project Manager, Minnesota Department of Transportation Tel: (651) 234-7723 Victoria.Nill@state.mn.us |
| USH 41 & 47 City of Appleton, Outagamie Cnty WI State and City | 3 multi-lane Roundabouts Moderate-high complexity | 2008 | Final Plans | Roundabout Reviewer responsible for capacity analysis and final horizontal geometrics –Table 2 Signature, thru 30%. | Joe Bunker, Strand Inc Madison WI Joe.Bunker@strand.com 608-251-4843 |



MTJ Engineering's Project Examples

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| USH 45 STH 60 STH 60 CTH C WIDOT State and County | 5 roundabouts with 2-3 lane entries Moderate complexity | 2007 | 90% Design Complete | Roundabout Reviewer responsible for capacity analysis and final horizontal geometrics –Table 2 Signature, thru 30%- 60-90% Signing and markings | Joe Bunker, Strand Inc Madison WI Joe.Bunker@strand.com 608-251-4843 |
| City of Anderson, CA I-5 Interchange State and City | 1-3 lane entries High complexity | 2005 | 30% Design Complete | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 30-60% Plans including guidance on vertical profile control, pavement markings, signing. | Joseph W. Weiland, P.E. jweiland@omnimeans.com Roseville, CA 95678 Ph: (916) 782-8688 |
| Rock Freeway I-43 STH 164 Interchange WIDOT State and Local | 2-4 Lane entries Moderate-High complexity | 2007 | 30% Design Complete | Roundabout Reviewer responsible for capacity analysis and final horizontal geometrics –Table 2 Signature, thru 30% | Joe D. Gallamore, PE Transportation Manager Ayres Associates Waukesha, WI 53188 Phone (262) 523-4488 |
| Dowling Road Seward Highway Interchange Anchorage AK State and City | 2-3 Lane entries Moderate-High complexity | 2005 | Open | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 60-90% Plans including guidance on vertical profile control pavement markings, signing, landscaping, | Joel Stout, P.E. Senior Project Manager Lounsbury & Associates, Inc. Anchorage, Alaska 99518 (907) 272-5451 |
| Huffman Road / Seward Highway Interchange Alaska State and City | 2-3 Lane entries Moderate-High complexity | 2006 | 60% Design Complete | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 60-90% Plans including guidance on vertical profile control, pavement markings, signing, landscaping, | Shawn M. Hull, P.E. Transportation Engineer (907) 562-2000 DOWL Engineers 4041 B Street Anchorage, AK 99503 |
| City of Madison Thompson Drive STH 30 State, County and City | 2- Lane Moderate complexity | 2003 | Open | Roundabout Designer responsible for final horizontal geometrics, thru final PSE. From concept feasibility, public involvement to construction including field layout and inspection. | Bill Strobel WisDOT, Southwest Region 608.246.7962 |



Urban and Suburban Medium to High Volume Constrained Roundabouts

| Intersection location/ City & State | # of lanes/ (complexity) | Year | Current Status | Role in project | Client Contact/ telephone # |
|--|---|------|-------------------|--|---|
| MLK Roundabout, City of Springfield, OR City | Two Lanner with partial RT slip lanes, High Complexity due to ROW constraints, skews, 5 th leg, bus rapid transit stop Arterial/Arterial | 2005 | Open | Working directly with City of Springfield staff MTJ performed Roundabout Review overseeing capacity analysis and final horizontal geometrics, oversight thru 60-90% plans including guidance and review of vertical control, pavement markings, signing, landscaping, and field check / layout of pavement markings. | Brian F. Barnett, P.E. Traffic Engineer, City of Springfield, OR Tel: (541) 726.3681 bbarnett@ci.springfield.or.us |
| Sellwood Bridge intersection with Highway 43 Portland, OR ODOT, Clackamas County, PDOT, Multnomah County | One, Two and Three Lane entries, High Complexity Due to on structure grade separation, bridge issues, and ped/bike connectivity Arterial/Arterial | 2008 | Planning | Sub-consultant to CH2M providing expert roundabout application, analysis and designer responsible for capacity analysis and 30% final horizontal geometrics. Pedestrian and bicycle design elements and included comparison report of Draft HCS (NCRP 572) and Rodel capacity analysis. | Marcy Schwartz CH2M, Inc Portland OR Tel: (503) 736 4212 Marcy.Schwartz@CH2M.com |
| Beltline Gateway Project, City of Springfield, OR City | Two and Three lane with aux RT lanes High Complexity Arterial/Arterial/Col lector | 2008 | Planning | Provided capacity analysis review of others work and concept level sketch design for roundabout applications for this | Brian F. Barnett, P.E. Traffic Engineer, City of Springfield, OR Tel: (541) 726.3681 bbarnett@ci.springfield.or.us |
| Ziegler and Horsetooth Ave, City of Fort Collins, CO | Two Lanner Moderate complexity Arterial/ Collector | 2007 | Open | Roundabout Designer responsible for capacity analysis and final horizontal geometrics, Provided oversight guidance on vertical profile control, pavement markings, signing, landscaping | Jeff Temple, PE Stantec Inc Fort Collins, CO 80521 |



MTJ Engineering's Project Examples

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| IL 2 / Auburn St City of Rockford, IL City, State of IL | Downtown urban constrained, Arterial/Arterial Dual Lane High complexity due to ROW constraints, and skew | 2008 | 30% Design Complete Intersection Design Study(IDS) | Roundabout Designer responsible for capacity analysis and final horizontal geometrics, Provided oversight guidance on vertical profile control, pavement markings, signing, landscaping, and significant public outreach effort and agency coordination. | Charles P. Smith, P.E. Senior Project Manager Hanson Professional Services Inc. (615) 665-9611 ext. 4108 |
| Hamilton Rd and Cark State Rd Columbus City of Gahana, OH Cnty City State | Dual Lane High complexity | 2006 | 30% Design Complete | Roundabout Designer responsible for capacity analysis and final horizontal geometrics, Provided oversight guidance on vertical profile control, pavement markings, signing, landscaping | Joe Ridgeway E.P. Ferris & Associates, Inc. Columbus, OH 43212 (614) 299-2999 |
| 32 8 th /9 th Street City of DePerre WI | Dual Lane High complexity in its class | 2008 | 30% Design Complete | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics – Table 2 Signature, 30% | Sandra D. Carpenter, P.E. GAS and Associates, Inc. Green Bay, Wisconsin Office 920-592-9440 |
| Jackson Street /Murdock /STH 76 City of Oshkosh, WI | High complexity | 2006 | 60% Design Complete | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics –, 30% 60 90% | John A. Rathke, P.E., S.E. Mead & Hunt, Inc. Green Bay, WI, Phone (920) 496-0500 |
| City of Rochester Hills MI, Hamlin/Crooks | High complexity | 2008 | 30% Design Complete | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 60-90% Plans including guidance on vertical profile control, pavement markings, signing, landscaping, Field Layout and inspection of pavement markings and signing. | Kurtis A. Weslock, PE Project Manager - Transportation Orchard, Hiltz & McCliment, Livonia, MI 48150 p. 734.522.6711 |
| Lawrence DR Grant St, Brown County, WI | Dual Lanner moderate to high complexity | 2007 | 30% Design Complete | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics – Table 2 Signature, 30% | Joe Bunker, Strand Inc Madison WI (608) 251-2129 ext. 1169 |
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MTJ Engineering's Project Examples

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| South Town / Industrial Drive Monona, WI Primary Access for Super Walmart City and State | High complexity | 2006 | Open | Roundabout Designer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 60-90% Plans including guidance on vertical profile control, pavement markings, signing, landscaping, Field Layout and inspection of pavement markings and signing. Played Key Role in Public Acceptance | Jeremy A. Carter, P.E. McClure Engineering Associates, Inc. 7282 Argus Drive Rockford, IL 61107 |
| STH 78 / 92 Village of Mt Horeb, WI | Dual lanner High complexity | 2002 | Open | Roundabout Designer responsible for capacity analysis and final horizontal geometrics, thru 60-90% and final PSE. From Concept feasibility to Construction including field layout and inspection. | Bill Strobel SW Region - Madison Office Project Development Section (608) 246-7962 |
| CTH ID Main Street (4 roundabouts) Mt Horeb WI | Moderate complexity | 2005 | Open | Roundabout Designer/Reviewer responsible for final horizontal geometrics and review of signing and markings. | Joe Bunker, Strand Inc Madison WI (608) 251-2129 ext. 1169 |
| STH 16 Walnut /WI Ave Oconomowoc WI | High complexity Urban Contrained | 2007 | Open | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics – Table 2 Signature, 30% | Michael J.Statz, P.E. MSA Professional Services, Madison, WI 53704-3133 |
| 81 st and 83 rd City of Peoria, AZ | Moderate to high complexity | 2006 | Under Construction | Roundabout Designer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 60-90% Plans including guidance on vertical profile control, pavement markings, signing, landscaping. | Chris Kmetty, PE City of Peoria, AZ (602) 390-8102 Chris.Kmetty@peoriaaz.gov |
| City of Bend OR Reed Market and 15 th Street | Moderate complexity | 2007 | Under Construction? | Roundabout Reviewer responsible for capacity analysis and final horizontal geometrics and some oversight on signing and markings. | Heidi Lansdowne, P.E. City of Bend Engineering 745 NW Bond Bend, OR 97701 (541)388-5538 |
| Diffley Rd (CASH 13) and Rahn Rd: Dakota County, MN | Dual Lane Moderate complexity | 2006 | Planned for Construction | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics | Thomas A. Sohrweide, PE, PTOE Principal Manager, Traffic Engineering Services SEH - St. Paul |



MTJ Engineering's Project Examples

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|--|--|------|------------------------------|---|---|
| Pine Cone Road St Cloud, MN | Single-Lane Moderate complexity | 2006 | Planned for Construction | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics | Tony Heppelmann WSB & Associates Minneapolis, Minnesota 55416 Phone #: 763-287-7199 |
| 66 th / Portland City of Richfield MN | Dual Lane Moderate-High complexity | 2006 | Under Construction | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, oversight on signing and pavement markings | Tony Heppelmann WSB & Associates Minneapolis, Minnesota 55416 Phone #: 763-287-7199 |
| 66 th and 17 th Street City of Richfield MN | Dual Lane Moderate complexity | 2006 | Constructed | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics oversight on signing and pavement markings | Tony Heppelmann WSB & Associates Minneapolis, Minnesota 55416 Phone #: 763-287-7199 |
| STH 284 Waconia, MN | Interim Single- Ultimate Dual Lane Moderate complexity | 2006 | Planned for Construction? | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, signing and markings | Daniel A Lonnes P.E. Bolton & Menk, Inc. Chaska, MN 55318 Ph. (952)448-8838 |
| Radio Drive, Washington County MN (Open - Three- lane Ultimate Interim two- lanner) City County | Interim two lane ultimate three- lane Moderate complexity Arterial/ Collector | 2006 | Two lane Open | Roundabout Designer/Reviewer responsible for capacity analysis and final horizontal geometrics, Provided oversight thru 60-90% Plans including guidance on vertical profile control, pavement markings, signing, landscaping, | William C. Klingbeil, P.E. Project Engineer Howard R. Green Company St. Paul, MN Main: 651.644.4389 wklingbeil@hrgreen.com |