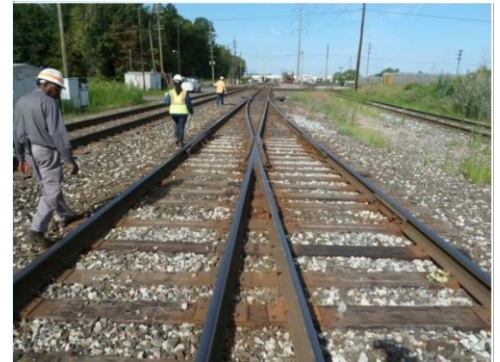


MDOT AS-NEEDED ENGINEERING SERVICES



Owner: Michigan Department of Transportation

Location: Michigan

As a result of its steady focus on developing high speed intercity passenger rail service, Michigan Department of Transportation (MDOT) has been awarded federal ARRA funds to procure the Norfolk Southern track right-of-way from Kalamazoo to Town Line and to implement improvements necessary to both maintain current service and enable increased train speeds and frequencies. Quandel Consultants was selected to provide program and project level engineering and management services to support the improvement and implementation of accelerated rail services between Pontiac/Detroit and Chicago.

Quandel Consultants will provide a variety of engineering and management services to MDOT including:

- Project Management
- Railroad Feasibility Studies
- Project Estimating
- Utility Coordination
- Geotechnical Services
- Developing Management Plans or other FRA-Required Documents
- Track and Bridge Inspections
- Review of Train Equipment
- Development of Standards, Manuals, and Guides
- Developing and Tracking Reports
- Service Development Planning
- Ridership Projections
- Railroad Capacity Modeling
- Development of Grant Applications
- Risk Assessments
- Survey
- Acquisition of Permits
- Contract Development
- Development of Railroad Bridge Management Plans
- Supporting MDOT Staff on Management Activities
- Strategic Planning Activities
- Public Involvement
- Maintenance Oversight Services
- Railroad Infrastructure Designs and Design Reviews