

# GRAND REGION

The Grand Region serves eight counties in the western part of lower Michigan. These are Ionia, Kent, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, and Ottawa Counties. Major state trunklines include: I-96, I-196, US-31, US-131 and the new M-6 freeway.

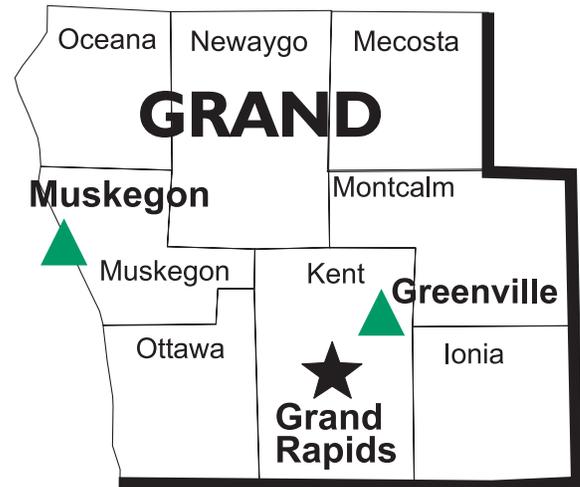
The Grand Region is continuing to experience significant economic and residential development. Project selection strategies focus on upgrading the system with an emphasis on freeway modernization, safety, and operational improvements. Economic expansion, and the resulting traffic growth in this area, have required that MDOT address system continuity needs of the freeway system by constructing the Grand Rapids South Beltline (M-6), designated as the **Paul B. Henry** freeway. MDOT strives to eliminate local choke points through projects such as reconstruction and widening of the US-131 S-Curve and improving access to I-96 from the area around the Gerald R. Ford International Airport. In addition, MDOT is continuing the necessary planning steps to resolve existing traffic issues and address future traffic growth in the US-31 corridor between Holland and Grand Haven. Local projects, such as Shoreline Drive in Muskegon and 36<sup>th</sup> Street in eastern Kent County, funded through Governor Engler's *Build Michigan III* program, also will complement major trunkline projects and provide improved local access to the freeway system in the Grand Region.

## Past Accomplishments

The Grand Region's construction program during the past four years included a record level of more than \$750 million in road and bridge funds. Over 275 miles of road were resurfaced or reconstructed, and 89 bridges were upgraded over this period. As a result, surface condition improved from 70 percent good in 1997 to 74 percent good in 2000. In addition, 30 new bridges and nine miles of new roadway have been constructed in the Grand Region, with the M-6, M-37, M-45, and US-131 S-curve projects. These surface improvements, and capacity improvements to address congestion problems, have resulted in improved ride quality and reduced congestion and travel times in this region.

### Highlights of this massive program were:

- **M-6 (Paul B. Henry Freeway), from I-96 to M-37.** Work was completed on the I-96 interchange and Thornapple River crossing in eastern Kent County. The paving project for this five mile segment of the new **Paul B. Henry Freeway** and M-37, was started in



2001 and opened to traffic on November 21, 2001, six months ahead of schedule. The opening of this first segment of the M-6 freeway will greatly reduce travel times and improve freeway access to the growing industrial and commercial area, south of the Gerald R. Ford International Airport, in southern Kent County. The reconstruction of I-96, between Whitneyville Avenue and Thornapple River Drive, also was completed in 2001 in coordination with the M-6 project.

- **US-31, from Hile Road north to M-46 (Apple Avenue) in the Muskegon area.** This two year project involved reconstruction, joint repairs and bridge rehabilitation along approximately six miles of this main north/south freeway in the Muskegon area. This project, including bridge work on four structures over the Muskegon River flats north of M-46, was completed and open to traffic in 2001.
- **US-131, from the south Kent County line, north to 76<sup>th</sup> Street.** This freeway resurfacing project was accelerated and completed in 2001 to reduce inconvenience to motorists during the US-131/M-6 interchange project, just north of 76<sup>th</sup> Street, scheduled for 2002 and 2003.
- **M-37 (Broadmoor Avenue), north of 60<sup>th</sup> Street to north of 76<sup>th</sup> Street.** Boulevard construction on this three mile segment was completed and open to traffic in fall 2001, and includes an interchange with the first segment of the M-6 freeway.
- **M-45 (Lake Michigan Drive), from 14<sup>th</sup> Avenue to 68<sup>th</sup> Avenue.** Construction work continued on this major widening project in Ottawa County, Allendale Charter Township, Tallmadge Township and near Grand Valley State University. The new Grand River crossing was completed in 2001, as well as major work on the boulevard segment of this project, between 14<sup>th</sup> and 68<sup>th</sup>

Avenues. In late fall 2001, traffic was shifted from the existing two-lane Grand River bridge to the new M-45 river crossing.

- **US-131, S-Curve in downtown Grand Rapids.** This segment of urban core freeway was opened to traffic in October 2000, well ahead of schedule. During 2001, work was completed on the remaining local city street improvements under the freeway, the anti-icing system, and lighting and aesthetic enhancements on the S-curve structures. This project has improved freeway traffic operations in the Grand Rapids downtown area by providing additional lanes and consolidating interchanges on this major freeway segment. Along with the interchange consolidations, city street improvements were coordinated with the freeway work to improve circulation in the downtown area.
- **US-131 from 10 Mile Road north to the M-46 west junction (17 Mile Road):** Construction was completed in 2001 on this two year freeway pavement rehabilitation project in northern Kent County. This project included a concrete overlay on the mainline pavement, concrete joint repairs, and bituminous overlays on the interchange ramps. US-131 is a major tourist and commuter route in and through this region.

## Five Year Road & Bridge Program

The Grand Region's preservation and capacity improvement program will upgrade 93 additional miles (more than 7 percent) of the Grand Region's 1,308 miles during the next five years. Of the 660 bridges in the Grand Region, 45 (7 percent) are currently programmed for improvements. More than \$260 million will be invested in the Grand Region over the next five years on road and bridge rehabilitation and repair programs alone. Major freeway work is programmed for the US-131 freeway north and south of Grand Rapids, I-96 in Kent and Ottawa Counties, and I-196 bridges in the city of Grand Rapids. Pavement rehabilitation is planned for the existing US-31 corridor and US-31 Business Route in the Holland area. Other pavement rehabilitation projects will occur on:

- **M-20 and M-37** in Newaygo County,
- **M-46** in Montcalm County,
- **M-120** in Muskegon County and
- **M-44** in Ionia County.

**Major projects started in 2001, which will continue into 2002; include the following:**

- **M-120 over the Muskegon River (the Causeway/Veterans Memorial Highway):** This two year project includes replacement of the structure and approaches to this major river crossing in the Muskegon area. Work started in 2001 and will be completed in 2002. M-120 is a commuter corridor connecting North Muskegon with the Muskegon downtown area.
- **M-20 from US-131 to McKinley Road in the city of Big Rapids and Mecosta County.** Work was completed in 2001 on five miles of M-20 from the east city limits of Big Rapids to McKinley Road in Mecosta County. This work included crushing and shaping the existing pavement, widening the paved portion of the roadway and resurfacing. Construction work will continue in 2002 where 3.3 miles of M-20 will be resurfaced from US-131 to 3rd Avenue in the city of Big Rapids. M-20 is the primary trunkline link between Ferris State University in Big Rapids and Central Michigan University in Mt. Pleasant.

**Major new projects in the 2002 to 2006 program include:**

- **I-196 (Gerald R. Ford Freeway) Bridges in Grand Rapids:** In 2002, 2003, and 2005, major rehabilitation and improvements will be made to several bridges along I-196 in Grand Rapids. I-196 is nearly 40 years old in this area and has the second highest traffic volumes in the Grand Region. A new weave/merge lane is also being added between Lane Avenue and US-131 to help improve traffic flow in this freeway corridor. These projects will address structural issues on the bridges and improve traffic operations along this core urban freeway, which provides access to the downtown area, and related major redevelopment projects, such as the new convention-entertainment complex.
- **I-96 Freeway between Coopersville and M-37 (Alpine Avenue) in Ottawa and Kent Counties:** This 2004 project includes bridge rehabilitation and major pavement rehabilitation on an eight mile section of interstate freeway between Coopersville and Marne in Ottawa County. In 2006, similar work is planned for the five mile segment between Marne

and M-37 (Alpine Avenue) in Kent County. The I-96 freeway in this area links Grand Rapids and Muskegon.

- **US-131 Freeway, southbound, from I-96 to Ann Street north of Grand Rapids:** Reconstruction of this major freeway corridor in the Grand Rapids metro area begins in 2006 along this two mile segment.
- **US-31 Business Route, Southern Avenue to the I-96/US-31 interchange, in Muskegon:** This six mile long project, scheduled for 2002, includes concrete joint repairs, asphalt resurfacing, and an additional concrete median barrier (between Grand Haven Road to Getty Street). Several intersection improvements are also planned to help traffic operation, along this business route through the Muskegon area.
- **M-37 in Newaygo County:** This 2002 project includes joint repairs, and resurfacing along four miles of M-37 from White Cloud north to three Mile Road. In 2003, additional joint repairs and resurfacing will be constructed along 10 miles of M-37 from the city of Newaygo, south to the village of Bailey in Muskegon County. M-37 is a tourist route into northern Michigan from Grand Rapids.
- **M-120 (Holton Road), from Lake Avenue in North Muskegon to US-31, and from east of US-31 to Marvin Road in Muskegon County:** These two projects scheduled for 2003 and 2004 include joint repairs and resurfacing of more than 13 miles of this major trunkline highway in Muskegon County. Also included with these projects is a center left-turn lane between Getty and Roberts, and a new loop ramp from westbound M-120 to southbound US-31.
- **M-45 (Lake Michigan Drive), in Kent and Ottawa Counties:** The 2002 project begins at the eastern terminus of the boulevard project in Ottawa County, continues east to the county line, and includes reconstruction and widening of M-45 to five lanes. In 2004, from Manzana Drive in Walker to I-196 in Grand Rapids, three miles of M-45 will be resurfaced, with intersection improvements at Oakleigh and Maynard Avenues.

- **US-31 in Holland, between 8<sup>th</sup> Street and 32<sup>nd</sup> Street:** Resurfacing and joint repairs are planned for 2005 along this two mile segment of US-31. US-31 is a major interstate trunkline as well as an urban commuter route along the coast of Lake Michigan which passes through the city of Holland.
- **M-44 in Ionia County:** In 2003, 0.7 miles of M-44, from the Flat River bridge to Ionia Street in the city of Belding, will be reconstructed to three lanes including concrete curb and gutter with intersection improvements. In 2006, additional resurfacing and joint repairs are planned on M-44, east of Belding to M-66. M-44 is an east/west highway linking I-96 and M-66.

In addition, Capital Preventive Maintenance (CPM) projects, programmed annually, will be undertaken to improve the condition and extend the life of bridges and highway surfaces. Several Congestion Mitigation/Air Quality (CMAQ) projects also are planned for trunklines in Kent, Ottawa, and Muskegon counties. Some of these major CMAQ projects include:

- **I-196 at 44<sup>th</sup> Street:** adding an eastbound loop ramp to the I-196 freeway from 44<sup>th</sup> Street to eliminate left-turns and improve traffic flow in the city of Grandville.
- **US-31 at M-120:** adding a loop ramp from westbound M-120 to the southbound US-31 freeway to eliminate left-turns and improve traffic flow in the Muskegon area.
- **M-11 (28<sup>th</sup> Street) at M-37 (Broadmoor Avenue):** adding dual left-turn lanes in all directions to improve the operation of this major trunkline intersection in the cities of Grand Rapids and Kentwood.

## Capacity Improvements and New Roads

**South Beltline (M-6).** Construction of the **Paul B. Henry Freeway (M-6)** project began in 1998. It will occur in three phases over a seven year period, ending in 2005. This project will complete a 20-mile, limited-access freeway around the southern Grand Rapids Metropolitan Area connecting I-96 and I-196. Interchanges will be constructed at I-96, M-37, US-131, and I-196, with local interchanges also at

Kalamazoo Avenue, Byron Center Avenue, Wilson Avenue and 8<sup>th</sup> Avenue. The governor's *Build Michigan III* program has allowed construction to be advanced from a 10 year to a seven year build-out schedule by providing funding for phases 2 and 3 to be constructed simultaneously.

Phase 1, connecting I-96 to M-37 was opened to traffic on November 21, 2001. Construction of Phases 2 and 3, connecting M-37 to I-196, has already started and will include 57 structures and construction of 15 miles of new freeway and interchanges in southern Kent County. The US-131 freeway will also be widened to six lanes between 76<sup>th</sup> Street and 44<sup>th</sup> Street with the M-6 project, with completion planned for 2003. In preparation for construction of the M-6/US-131 interchange, US-131 was resurfaced from 76<sup>th</sup> Street south to the Kent County line in 2001. Phases 2 and 3 of M-6 will be open to traffic by 2005.

This project involves the innovative use of alternate bidding and the use of a performance warranty. Alternate bidding is a process that allows contractors the option to analyze and propose the pavement type (concrete vs. asphalt) based on the specifications provided by MDOT for the project. Performance warranties are also being used on M-6 to ensure we receive a quality product for the users of the highway, and to reduce the risk of future unanticipated problems or premature pavement wearing.

**Baldwin Road Connector.** A study of I-196 near Baldwin Road began in 1998 to improve access in the Jenison area. MDOT has received Federal Highway Administration approval of the required justification report for a new access point to I-196. In 2001, MDOT began collecting preliminary environmental impact data. The environmental clearance process is expected to continue through 2003.

#### **I-96 Airport Area Access and new interchange.**

The 36<sup>th</sup> Street Extension and new 36<sup>th</sup> Street Interchange at I-96 have been selected as the recommended alternative as part of the I-96 Airport Area Access Study. This alternative will include substantial trunkline and local road improvements. This project was identified as a component of the Federal High Priority Projects Program, secured by U.S. Representative Vern Ehlers, to improve access to the Gerald R. Ford International Airport area. Funding for the 36<sup>th</sup> Street Extension project also is part of the governor's *Build Michigan III* program. The Environmental Impact Statement is expected to be completed and approved in early 2002. Design and right of way acquisition will begin in 2002. Construction of the local 36<sup>th</sup> Street extension project is planned to begin in 2003; the 36<sup>th</sup> Street interchange is scheduled for construction to begin in 2004.

**M-45 (Lake Michigan Drive), 68<sup>th</sup> Avenue east to 14<sup>th</sup> Avenue.** Construction of the M-45 Boulevard project, from west of 14<sup>th</sup> Avenue to 68<sup>th</sup> Avenue in Ottawa County began in 1999. The new Grand River crossing is now open to traffic. Completion of all phases of the boulevard is expected by the end of 2002. This improvement project will accommodate the increasing traffic demand generated by the expansion of Grand Valley State University. Additional pavement rehabilitation projects along the M-45 corridor from east of the boulevard project to I-196 in the city of Grand Rapids are scheduled during the next five years.

## Research

#### **US-31 in Ottawa County, Holland to Grand Haven.**

A Final Environmental Impact Statement (FEIS) for the proposed relocation of US-31, as well as improvements along the existing route in Ottawa County between Holland and Grand Haven is expected to be completed in 2002. A land use study of Ottawa County was included as a part of the FEIS to highlight the opportunity for local land use coordination to manage current and projected growth in the county and along the new US-31 corridor. Upon federal approval of the FEIS, the project can move into the design phase. The governor's *Build Michigan III* program has made funds available for the design phase of the recommended alternative.

**I-96 access east of the Thornapple River.** The access study to determine the need for improvements and to identify options that will address I-96 access issues in eastern Kent County will continue in 2002. MDOT is seeking early public involvement in the form of an opinion survey of businesses, government, and the general public regarding transportation issues, and modeling of the impact of recent and planned improvements, such as M-6, in the study area. The study is being closely coordinated with the I-96 Airport Area Access study.

**I-196/I-96 Operational Study.** The I-196/I-96 Corridor Planning Study includes the area of I-196 from Market Street to I-96 and the short segment of I-96 from Leonard Street to East Paris Avenue in the city of Grand Rapids and Kent County. The study analyzed the existing conditions of the structures and pavement and identified conceptual improvements within the project area. This analysis will be used to create a "master plan" of mainline and interchange improvements that are practical, affordable, and able to be phased in a logical order. The draft report has been completed and a finalized report, including an executive summary for the public, will be completed in 2002.

2002-2006 FIVE YEAR PLAN

Repair and Rebuild Roads

Grand Region

COUNTY	ROUTE(COMMON NAME)	BM III	LOCATION	TYPE OF WORK	LENGTH	2002	2003	2004	2005	2006
IONIA	I-96 WB		PORTLAND REST AREA	REST AREA - BUILDING REPLACEMENT		CON				
IONIA	M-44 (BELDING ROAD)		FLAT RIVER BRIDGE EAST TO IONIA STREET	ROAD - RECONSTRUCT	0.695		CON			
IONIA	M-44 (BELDING ROAD)		IONIA STREET TO CANFIELD RD AND FLANNIGAN RD TO M-66	ROAD - RESURFACE, MILL AND PULVERIZE	5.234					CON
IONIA	M-50		OVER TUPPER RIVER	BRIDGE - APPROACH WORK				CON		
IONIA	M-50		M-50 OVER TUPPER RIVER	BRIDGE - SUBSTRUCTURE & BEAM REPAIR	0.000			CON		
IONIA	M-50		M-50 OVER DUCK CREEK	BRIDGE - BRIDGE REPLACEMENT	0.000		CON			
IONIA	M-50 (JORDAN LAKE STREET)		WEST VILLAGE LIMITS OF LAKE ODESSA EAST TO COUNTY LINE	ROAD - RESURFACE, MILL AND PULVERIZE	1.693			CON		
IONIA	M-66 (STATE ROAD)		M-21 NORTH TO APPLE TREE LANE (IONIA)	ROAD - RECONSTRUCT	0.700					CON
IONIA	M-66 NB (STATE ROAD)		GRAND RIVER AVENUE TO PECK LAKE ROAD	PASSING RELIEF LANES	0.890	CON				
KENT	I-196 (GERALD R. FORD FWY)	BM III	FOUR BRIDGES ON I-196, GRAND RAPIDS	BRIDGE - APPROACH WORK			CON			
KENT	I-196 (GERALD R. FORD FWY)		I-196 M-21 EASTBOUND OVER OTTAWA AVENUE AND RAMP A	BRIDGE - SUPERSTRUCTURE REPLACE	0.000		CON			
KENT	I-196 (GERALD R. FORD FWY)		I-196 M-21 WESTBOUND OVER OTTAWA AVENUE AND RAMP A	BRIDGE - WIDEN, REPLACE SUPERSTRUCTURE, AD	0.000		CON			
KENT	I-196 (GERALD R. FORD FWY)		I-196 M-21 EASTBOUND OVER US-131BR AND IONIA	BRIDGE - SUPERSTRUCTURE REPLACE	0.000		CON			
KENT	I-196 (GERALD R. FORD FWY)		I-196 M-21 WESTBOUND OVER US-131BR AND IONIA	BRIDGE - WIDEN, REPLACE SUPERSTRUCTURE, AD	0.000		CON			
KENT	I-196 (GERALD R. FORD FWY)		I-196/US-131 INTERCHANGE	ROADS - UPGRADE/REPLACE TOWER LIGHT	0.000	CON				
KENT	I-196 (GERALD R. FORD FWY)		OVER CSX RAILROAD AND STOCKING AVENUE	BRIDGE - APPROACH WORK			CON			
KENT	I-196 (GERALD R. FORD FWY)		I-196, M-21 EASTBOUND OVER CSX RAILROAD	BRIDGE - WIDEN, REPLACE SUPERSTRUCTURE, AD	0.000		CON			
KENT	I-196 (GERALD R. FORD FWY)		I-196, M-21 EASTBOUND OVER STOCKING AVENUE	BRIDGE - WIDEN, REPLACE SUPERSTRUCTURE, AD	0.000		CON			
KENT	I-196 (GERALD R. FORD FWY)		I-196, M-21 WESTBOUND OVER CSX RAILROAD	BRIDGE - WIDEN, REPLACE SUPERSTRUCTURE, AD	0.000	CON				
KENT	I-196 BS (FRANKLIN)		I-196 BS(FRANKLIN) OVER CSX RAILROAD AND US-131, I-196B	BRIDGE - SUBSTRUCTURE REPLACEMENT	0.000	CON				
KENT	I-196 (GERALD R. FORD FWY)		M-21 OVER OTTAWA AVENUE US-131 BR, IONIA	BRIDGE - APPROACH WORK			CON			
KENT	I-196 (GERALD R. FORD FWY)		I-96, M-21 EASTBOUND OVER OTTAWA AVENUE AND RAMP A	BRIDGE - OVERLAY-DEEP	0.000		CON			
KENT	I-196 (GERALD R. FORD FWY)		I-96, M-21 WESTBOUND OVER OTTAWA AVENUE AND RAMP A	BRIDGE - OVERLAY-DEEP			CON			
KENT	I-196 (GERALD R. FORD FWY)		I-96, M-21 EASTBOUND OVER US-131 BR AND IONIA	BRIDGE - OVERLAY-DEEP			CON			
KENT	I-196 (GERALD R. FORD FWY)		I-96, M-21 WESTBOUND OVER US-131 BR AND IONIA	BRIDGE - OVERLAY-DEEP			CON			
KENT	I-196 EB (GERALD R. FORD FWY)		I-196 EASTBOUND OVER GTW RAILROAD	BRIDGE - APPROACH WORK					CON	
KENT	I-196 EB (GERALD R. FORD FWY)		I-196 M-21 EASTBOUND OVER GTW RAILROAD	BRIDGE -REPLACE SUPERSTRUCTURE, ADD LANES	0.000				CON	
KENT	I-196 EB (GERALD R. FORD FWY)		OVER BROADWAY AND TURNER	BRIDGE - APPROACH WORK		CON				
KENT	I-196 EB (GERALD R. FORD FWY)		I-196 EB OVER BROADWAY AVENUE AND TURNER AVENUE	BRIDGE - DECK REPLACEMENT	0.000	CON				
KENT	I-196 WB (GERALD R. FORD FWY)		OVER GRAND RIVER/US-131	BRIDGE - APPROACH WORK			CON			
KENT	I-196 WB (GERALD R. FORD FWY)		OVER GRAND RIVER/US-131	BRIDGE - OVERLAY - SHALLOW	0.000		CON			
KENT	I-196 EB (GERALD R. FORD FWY)		OVER LANE AVENUE	BRIDGE - APPROACH WORK		CON				
KENT	I-196 EB (GERALD R. FORD FWY)		I-196, M-21 EASTBOUND OVER LANE AVENUE	BRIDGE - WIDEN, REPLACE DECK, ADD LANES	0.000	CON				
KENT	I-196 WB (GERALD R. FORD FWY)		OVER GT&W RAILROAD, GRAND RAPIDS	BRIDGE - APPROACH WORK			CON			
KENT	I-196 WB (GERALD R. FORD FWY)		I-196 WB M-21 WB OVER GTW RAILROAD	BRIDGE - WIDEN, REPLACE SUPERSTRUCTURE, AD	0.000		CON			
KENT	I-196 WB (GERALD R. FORD FWY)		OVER STOCKING AVENUE	BRIDGE - APPROACH WORK		CON				
KENT	I-196 WB (GERALD R. FORD FWY)		I-196, M-21 WESTBOUND OVER STOCKING AVENUE	BRIDGE - WIDEN, REPLACE SUPERSTRUCTURE, AD	0.000	CON				

2002-2006 FIVE YEAR PLAN

Repair and Rebuild Roads continued

Grand Region

COUNTY	ROUTE(COMMON NAME)	BM III	LOCATION	TYPE OF WORK	LENGTH	2002	2003	2004	2005	2006
KENT	I-96		16TH AVENUE EAST TO BRISTOL AVENUE	ROAD - MAJOR REHABILITATION	6.358					CON
KENT	I-196 EB (GERALD R. FORD FWY)		I-196 EASTBOUND RAMP OVER M-21 BR (CHICAGO DRIVE)	BRIDGE - DECK PATCH, BEAM REPAIR	0.000			CON		
KENT	I-96 EB (GERALD R. FORD FWY)		I-96(EASTBOUND) UNDER I-196(WESTBOUND)	BRIDGE - APPROACH WORK			CON			
KENT	I-196 EB (GERALD R. FORD FWY)		I-96 EASTBOUND UNDER I-196 WESTBOUND	BRIDGE - WIDEN, REPLACE SUPERSTRUCTURE, AD	0.000		CON			
KENT	M-11 (28TH STREET)		I-96 EASTBOUND OFF-RAMP TO I-96 WESTBOUND OFF-RAMP	ROADS - MINOR REHABILITATION	0.263	CON				
KENT	M-45 (LAKE MICHIGAN DRIVE)		MANZANA DRIVE EAST TO I-196	ROAD - RESURFACE, MILL AND PULVERIZE	2.861			CON		
KENT	US-131		OVER CONRAIL/PLASTER CREEK	BRIDGE - APPROACH WORK					CON	
KENT	US-131 SB		US-131 SOUTHBOUND OVER I-196 EASTBOUND, M-21	BRIDGE - SUPERSTRUCTURE REPAIR	0.000	CON				
KENT	US-131		US-131 OVER CONRAIL AND PLASTER CREEK	BRIDGE - DECK REPLACEMENT	0.000				CON	
KENT	US-131		UNDER 28TH STREET IN WYOMING	BRIDGE - APPROACH WORK				CON		
KENT	US-131		M-11 OVER US-131	BRIDGE - SUPERSTRUCTURE REPLACE	0.000			CON		
KENT	US-131 SB		ANN STREET NORTH TO NORTH PARK STREET	ROAD - REONSTRUCT, NO WIDENING	2.170				CON	
KENT	US-131 SB		ROCKFORD REST AREA	REST AREA - BUILDING REPLACEMENT						CON
MECOSTA	M-20 (NINE MILE ROAD)		M20/M66 INTERSECTION (REMUS)	ROAD - REONSTRUCT, NO WIDENING	0.541		CON			
MECOSTA	M-20 (TAFT ROAD)		MCKINLEY ROAD EAST TO SOUTH OF 13 MILE ROAD	ROAD - RESURFACE, MILL AND PULVERIZE	5.307		CON			
MECOSTA	M-86 (30TH AVENUE)	BM III	ARTHUR ROAD NORTH 1.44 MILES	PASSING RELIEF LANES	1.500	CON				
MECOSTA	US-131 BL		OVER MITCHELL CREEK IN BIG RAPIDS	BRIDGE - APPROACH WORK				CON		
MECOSTA	US-131 BL		US-131 BL OVER MITCHELL CREEK	BRIDGE - DECK REPLACEMENT	0.000			CON		
MECOSTA	US-131(OLD (NORTH LAND DRIVE))		14 MILE ROAD NORTH TO PERRY STREET	ROAD - RESURFACE, MILL AND PULVERIZE	1.347		CON			
MONTCALM	M-46		OVER TAMARACK CREEK, WINFIELD TOWNSHIP	BRIDGE - APPROACH WORK				CON		
MONTCALM	M-46		M-46 OVER TAMARACK CREEK	BRIDGE - STEEL REPAIR AND PAINTING	0.000			CON		
MONTCALM	M-46 (EDMORE ROAD)		LEWIS STREET EAST TO VESTABURG ROAD	ROADS - RESURFACE, MILL AND PULVERIZE	5.302	CON				
MONTCALM	M-46 (HOWARD CITY-EDMORE RD)		VESTABURG ROAD EAST TO EAST COUNTY LINE	ROAD - RESURFACE, MILL AND PULVERIZE	4.470		CON			
MONTCALM	M-46 (HOWARD CITY-EDMORE RD)		MILES ROAD EAST TO M-66	ROAD - RESURFACE, MILL AND PULVERIZE	4.647				CON	
MONTCALM	M-91 (GREENVILLE ROAD)		SNOWS LAKE ROAD NORTH TO BENTON STREET	ROAD - RESURFACE, MILL AND PULVERIZE	2.800		CON			
MUSKEGON	M-120 (HOLTON ROAD)		OLD ORCHARD ROAD NORTH EAST TO MARVIN ROAD	ROAD - RESURFACE, MILL AND PULVERIZE	10.863			CON		
MUSKEGON	M-120 (SEAWAY DRIVE)		LAKE AVENUE EAST TO US-31 SB RAMPS, NORTH MUSKEGON	ROAD - RESURFACE, MILL AND PULVERIZE	2.670		CON			
MUSKEGON	US-31(BR) WB		OVER SOUTH BRANCH OF MUSKEGON RIVER, MUSKEGON	BRIDGE - SUPERSTRUCTURE REPLACE	0.000					CON
MUSKEGON	US-31BR		SOUTHERN AVENUE SOUTH TO US-31 NORTH BOUND RAMP	ROADS - RESURFACE, MILL AND PULVERIZE	5.627	CON				
MUSKEGON	US-31 SB		MUSKEGON REST AREA	REST AREA - BUILDING REPLACEMENT				CON		
NEWAYGO	M-20 (BASE LINE ROAD)		M-37 EAST TO WEBSTER ROAD	ROAD - REONSTRUCT	0.711			CON		
NEWAYGO	M-37 (MASON DRIVE)		GRANT NORTH VILLAGE LIMITS NORTH TO MUSKEGON RIVER	ROAD - RESURFACE, MILL AND PULVERIZE	6.160		CON			
NEWAYGO	M-37 (MASON DRIVE)		SMITH ROAD NORTH TO GRANT NORTH VILLAGE LIMITS	ROAD - RESURFACE, MILL AND PULVERIZE	4.598		CON			
NEWAYGO	M-37 (SEAWAY DRIVE)		SOUTH CITY LIMITS WHITE CLOUD TO THREE MILE ROAD	ROADS - RESURFACE, MILL & PULVERIZE	3.820	CON				
OTTAWA	M-21 OLD		OVER BLACK CREEK, ZEELAND TOWNSHIP	BRIDGE - APPROACH WORK				CON		
OTTAWA	M-21 OLD (WB)		OLD M-21 WESTBOUND OVER BLACK CREEK	BRIDGE - BRIDGE REPLACEMENT	0.000			CON		
OTTAWA	I-196		ZEELAND REST AREA	REST AREA - BUILDING REPLACEMENT						CON

2002-2006 FIVE YEAR PLAN

Repair and Rebuild Roads continued

Grand Region		Repair and Rebuild Roads continued								
COUNTY	ROUTE (COMMON NAME)	BM III	LOCATION	TYPE OF WORK	LENGTH	2002	2003	2004	2005	2006
OTTAWA	I-96		WEST OF 68TH AVENUE EAST TO EAST OF 16TH AVENUE	ROAD - MAJOR REHABILITATION	8.118			CON		
OTTAWA	I-96		OVER I-196, 68TH AVENUE, 48TH AVENUE, 165H AVENUE	BRIDGE - APPROACH WORK				CON		
OTTAWA	I-96		68TH AVENUE OVER I-96	BRIDGE - OVERLAY-DEEP	0.000			CON		
OTTAWA	I-96		48TH AVENUE OVER I-96	BRIDGE - OVERLAY-DEEP				CON		
OTTAWA	I-96		16TH AVENUE OVER I-96	BRIDGE - OVERLAY-DEEP				CON		
OTTAWA	I-96		OVER DEER CREEK, OTTAWA COUNTY	BRIDGE - APPROACH WORK				CON		
OTTAWA	I-96		I-96 EASTBOUND OVER DEER CREEK	BRIDGE - OVERLAY	0.000			CON		
OTTAWA	I-96		I-96 WESTBOUND OVER DEER CREEK	BRIDGE - OVERLAY	0.000			CON		
OTTAWA	I-96		OVER 24TH AVENUE	BRIDGE - APPROACH WORK				CON		
OTTAWA	I-96		I-96 EASTBOUND OVER 24TH AVENUE	BRIDGE - OVERLAY-DEEP	0.000			CON		
OTTAWA	I-96		I-96 WESTBOUND OVER 24TH AVENUE	BRIDGE - OVERLAY-DEEP	0.000			CON		
OTTAWA	I-96		OVER SAND CREEK, WRIGHT TOWNSHIP	BRIDGE - APPROACH WORK				CON		
OTTAWA	I-96		I-96 EASTBOUND OVER SAND CREEK	BRIDGE - OVERLAY-DEEP	0.000			CON		
OTTAWA	I-96		I-96 WESTBOUND OVER SAND CREEK	BRIDGE - OVERLAY-DEEP	0.000			CON		
OTTAWA	M-45 (LAKE MICHIGAN DRIVE)		14TH AVENUE EAST TO COUNTY LINE	ROADS - RECONSTRUCT EXISTING, NO WIDEN	2.036	CON				
OTTAWA	US-31		OTTAWA CO LINE TO EIGHTH ST & US-31 BR INTERCHANGE	ROAD - RESURFACE, MILL AND PULVERIZE	2.155				CON	
OTTAWA	US31BR (RIVER DRIVE)		28TH STREET NORTH TO NINTH STREET	ROAD - RECONSTRUCT	1.261			CON		
					94.797					

**2002-2006 FIVE YEAR PLAN**

**Grand Region**

COUNTY	ROUTE (NAME)	BM III	LOCATION	TYPE OF WORK	LENGTH	2002	2003	2004	2005	2006
<b>Committed New Roads</b>										
OTTAWA	M-6 (PAUL B. HENERY FWY)		I-196 TO EAST OF JACKSON STREET	NEW ROUTES	0.470	ROW, CON	ROW, CON			
KENT	M-6 (PAUL B. HENERY FWY)		KENOWA AVE TO WANREST AVE, BYRON TOWNSHIP	NEW ROUTES	1.889	PE, ROW, CON	CON			
KENT	M-6 (PAUL B. HENERY FWY)		EAST OF WANREST AVE TO EAST OF BURLINGAME AVE	NEW ROUTES	2.299	PE, ROW, CON	CON			
KENT	M-6 (PAUL B. HENERY FWY)	BM III	EAST OF BURLINGAME AVE TO EAST OF DIVISION AVE	NEW ROUTES	2.330	ROW, CON	ROW, CON	CON		
KENT	US-131		76TH STREET TO 54TH STREET	ROAD - RECONSTRUCT AND ADD LANE(S)	2.825	CON	CON	CON		
KENT	M-6 (PAUL B. HENERY FWY)		EAST OF DIVISION AVENUE TO EAST OF KALAMAZOO AVE	NEW ROUTES	1.958	PE, ROW, CON	CON			
KENT	M-6 (PAUL B. HENERY FWY)		EAST OF KALAMAZOO AVENUE TO WEST OF PATTERSON AVE	NEW ROUTES	2.796	PE, ROW, CON	CON			
KENT	M-6 (PAUL B. HENERY FWY)		EAST OF JACKSON STREET TO EAST OF BURLINGAME AVE	ROAD - GUARDRAIL, SIGNS & PAVEMENT MARKING	6.499	PE	CON	CON		
OTTAWA	M-6 (PAUL B. HENERY FWY)		EAST OF JACKSON STREET TO EAST OF KENOWA AVENUE	NEW ROUTES	2.310	CON	CON	CON		
KENT	M-6 (PAUL B. HENERY FWY)		EAST OF JACKSON STREET TO EAST OF BURLINGAME AVE	ROAD - PAVING CONTRACT	6.499	PE	CON	CON		
KENT	M-6 (PAUL B. HENERY FWY)		M-6 OVER HANNA LAKE AVENUE	NEW STRUCTURE	0.000	PE, CON	CON			
KENT	M-6 (PAUL B. HENERY FWY)		NORTHWEST QUADRANT OF M-6/8TH AVENUE INTERCHANGE	WETLAND CREATION	0.000	PE, CON	CON			
KENT	M-6 (PAUL B. HENERY FWY)		ALONG 8TH AVENUE WEST OF M-6	WETLAND CREATION AND TREE PLANTING	0.000	CON	CON			
KENT	M-6/US-131		NORTH OF 92ND ST, BURLINGAME AVE TO CLYDE PARK AVE	WETLAND CREATION AND TREE PLANTING	0.000	PE, CON	CON			
KENT	M-6 (PAUL B. HENERY FWY)		EAST OF DIVISION AVENUE TO WEST OF PATTERSON AVENUE	ROAD - PAVING CONTRACT	4.754	PE	CON	CON		
KENT	M-6 (PAUL B. HENERY FWY)		SOUTH OF 76TH STREET, BRETON AVE TO HANNA LAKE AVE	WETLAND CREATION AND TREE PLANTING	0.000	PE, CON	CON			
KENT	M-6 (PAUL B. HENERY FWY)		EAST OF DIVISION AVENUE TO WEST OF PATTERSON AVENUE	ROAD - GUARDRAIL, SIGNS & PAVEMENT MARKING	4.754	PE	CON	CON		

39.383

**Committed Capacity Improvement**

KENT	I-196 (GERALD R. FORD FWY)		BALDWIN ROAD CONNECTOR	STUDY	2.000	EPE	EPE			
KENT	I-96		36TH STREET/I-96 GERALD R. FORD AIRPORT AREA	INTERCHANGE STUDY FOR AIRPORT ACCESS	2.805	EPE, PE, ROW	PE, ROW	ROW, CON	CON	
OTTAWA	M-45 (LAKE MICHIGAN DRIVE)		40TH AVENUE TO 14TH AVENUE	CONSTRUCT BOULEVARD	3.389	2/2/2004	CON			
OTTAWA	M-45 (LAKE MICHIGAN DRIVE)		68TH AVENUE TO 40TH AVENUE	CONSTRUCT BOULEVARD	3.499	ROW, CON				
OTTAWA	M-45 (LAKE MICHIGAN DRIVE)		NORTH OF M-45 ALONG 48TH AVENUE	WETLAND CREATION	0.000	CON				
KENT	US-131		54TH TO 44TH STREET	RECONSTRUCT AND ADD LANE(S)	1.262	CON	CON	CON		
KENT	US-131		US-131 OVER BUCK CREEK AND 54TH STREET OVER US-131	REPLACE BRIDGE, ADD LANES, PAINT	0.000	CON	CON	CON		

12.955

**New Roads Research**

OTTAWA	US-31	BM III	I-196 NORTH TO I-96	STUDY FOR RELOCATION & IMPROVEMENTS TO EX	26.990	EPE, PE	PE	PE	PE	
--------	-------	--------	---------------------	---	--------	---------	----	----	----	--

26.990

**Capacity Improvement Research**

KENT	I-96		EAST OF THORNAPPLE RIVER	NEW INTERCHANGE STUDY	0.000	EPE	EPE			
KENT	I-196(GERALD R. FORD FWY)&I-96		I-196: MARKET TO I-96; I-96: LEONARD TO M-21	CORRIDOR IMPROVEMENT STUDY	10.672	EPE	EPE			

10.672