APPENDIX B

Draft WisDOT ITS Program Project Submittal Forms and Order of Magnitude Cost Estimates
PROJECT TITLE:
TEA21 Earmark Administrative and Technical Support Services

PROJECT TRACKING ID:
T9903

STATE FISCAL YEAR(S):
1999, 2003

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
MONITOR TEA21 Earmark Federal Project Agreement
DTID-ITS
FHWA-Madison

PROJECT DESCRIPTION:
• Contract for consultant services to support administration of TEA 21 MONITOR Earmark
• Coordinate MONITOR deployment activities with TIME and GCM programs
• Complete technical and administrative reporting on Earmark to DTID, FHWA, and others

EARMARKING CONSIDERATION:
This project will be funded through the MONITOR TEA21 Earmark

CONSULTANT SERVICES:
This project will consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation - 11/98
Consultant selection and scoping - 1/99
Execute consultant contract - 2/99
Issue notice to proceed - 2/99

PROJECT COSTS:
SFY99 - $600,000
SFY02 - $600,000

EVALUATION PROVISIONS:
This project will be evaluated by the MONITOR System Evaluation & Tech. Development Project
(This evaluation project is also part of the MONITOR TEA21 Earmark Project Agreement)
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
District GCM Staffing and Administrative Support (1000-31-33)

PROJECT TRACKING ID:
T9904

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Gary-Chicago-Milwaukee ITS Priority Corridor and TIME Program Participants

PROJECT DESCRIPTION:
- Completing program evaluations, analysis, tracking and management assignments for the freeway operations and ITS programs at the district level
- Assisting in the administration of a regional transportation program through technical analysis and recommendations through independent studies and projects
- Completing project and program status evaluations and reports
- Organizing, conducting and documenting project development of technology deployment projects
- Supporting the district in development and administration of related consultant procurement and construction contracts

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
(to be determined)

PROJECT SCHEDULE OR MILESTONES:
Project start - 5/99
Project completion- 6/01

PROJECT COSTS:
SFY00 - $200,000
SFY01 - $200,000

EVALUATION PROVISIONS:
This initiative is intended to provide ITS program and technical support and administrative services. These efforts do not require an evaluation.
PROJECT TITLE:
District 2 GCM Program Support

PROJECT TRACKING ID:
T9905

STATE FISCAL YEAR(S):
2000, 2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Gary-Chicago-Milwaukee ITS Priority Corridor and TIME Program Participants

PROJECT DESCRIPTION:
• Completing program evaluations, analysis, tracking and management assignments for the freeway operations and GCM ITS programs
• Assisting in the administration of a regional transportation program through technical analysis and recommendations through independent studies and projects
• Completing project and program status evaluations and reports of GCM ITS Projects
• Supporting the development and administration of GCM-related consultant contracts

EARMARKING CONSIDERATION:
This project may be funded through the TEA-21 earmarks.

CONSULTANT SERVICES:
This project will involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
Project start - 5/99
Project completion - 6/01

PROJECT COSTS:
SFY00 - $300,000
SFY01 - $300,000

EVALUATION PROVISIONS:
This initiative is intended to provide ITS program and technical support and administrative services. These efforts do not require an evaluation.
PROJECT TITLE:
Regional Planning Commission ITS Planning Project

PROJECT TRACKING ID:
T0201

STATE FISCAL YEAR(S):
2002

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Integrated Corridor Operations Project (ICOP) Strategic Plan (pending)
MONITOR Deployment Plan
Communications & Data System Infrastructure Strategic Plan (pending)

PROJECT DESCRIPTION:
• Contract with Southeastern Wisconsin Regional Planning Commission to comprehensively the traffic management and ITS element of the Regional Transportation Plan
• Document & integrate planning activities of existing and emerging ITS-related programs in the region
• Refine the “vision” for ITS in the region
• Plan components may include:
  - Summary of existing conditions
  - User needs identification
  - ITS elements identification
  - Funding opportunities
  - Deployment plan and regional ITS architecture review

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will consist of public agency professional services.

PROJECT SCHEDULE OR MILESTONES:
Incorporate project into SEWRPC work plan - 12/99
Complete interagency contract development and project plan - 3/01
Complete study - 12/02

PROJECT COSTS:
SFY02 - $500,000

EVALUATION PROVISIONS:
No evaluation of this project is necessary.
PROJECT TITLE:
Transportation Operations Strategic Vision Development

PROJECT TRACKING ID:
T0106

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Identify current strategic direction of transportation planning, programming, design and construction in District Two.
- Survey of individuals within and outside of the department to collect opinions of the perceived optimal direction for multi-modal transportation operations initiatives in District 2 during next 20 years
- Develop a comprehensive vision statement for the transportation system in Southeastern Wisconsin.
- This vision statement will include discussion relating to the placement, design, operational and safety considerations of the entire transportation system.

EARMARKING CONSIDERATION:
Earmark funding may be considered for this project

CONSULTANT SERVICES:
This project will involve transportation planning services provided by a consultant

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 5/01
Identification of existing direction begin - 7/01
Survey of desired direction begin - 8/01
Development of vision statement - 12/01

PROJECT COSTS:
SFY01 - $300,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Resource Opportunity Research

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
This project consists of conducting sufficient research to determine additional resource and funding opportunities available within the participating agencies of the TIME Program. Possible agencies and associations to research include public safety, maintenance, etc.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Annual Program Administration - $17,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E1.(f) Resource Opportunity Research

ANNUAL PROGRAM ADMINISTRATION:
Research and Documentation = 1 man month = $17,000

$17,000
PROJECT TITLE:
Multi-Agency Collocation Project

PROJECT TRACKING ID:
T0101

STATE FISCAL YEAR(S):

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Contracts for local agency staff support of MONITOR Traffic Operations Center
• Provides resources to local agencies to enable continued technical support involvement in TIME
• Expands upon successful local law enforcement collocation pilot project

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project may involve consultant services to assist local agencies in technical support of TIME

PROJECT SCHEDULE OR MILESTONES:
Local agency project agreements - 1/99
Execution of local agency contracts - 3/99

PROJECT COSTS:
SFY01 - $400,000
SFY02 - $400,000
SFY03 - $400,000
SFY04 - $400,000
SFY05 - $400,000
SFY06 - $400,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:  
TIME Program Technical Support

PROJECT TRACKING ID:  
T0103/T0301

STATE FISCAL YEAR(S):  
2001, 2003, 2005

SPONSOR:  
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:  
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:  
• Contract for consultant services to provide technical and administrative support to ongoing program
• Design small to medium interagency projects for technology deployment
• Complete studies and preliminary engineering for traffic incident management projects

EARMARKING CONSIDERATION:  
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:  
This project will consist of consultant services

PROJECT SCHEDULE OR MILESTONES:  
Consultant solicitation - 12/01  
Consultant selection and scoping - 2/02  
Execute consultant contract - 5/02  
Issue notice to proceed - 6/02

PROJECT COSTS:  
SFY01 - $600,000  
SFY03 - $600,000  
SFY05 - $600,000  
(Propose full encumbrance in SFY00)

EVALUATION PROVISIONS:  
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Emergency Respondent Resource Lists

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Emergency Respondent Resource Lists specify who (personnel) and what (equipment) is available to assist with incident management for each particular freeway segment. This list is distributed to all responsible agencies and used by dispatchers to ensure the most efficient and effective resources are dispatched for incident management. This list must be comprehensive and updated frequently to ensure all information is accurate.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx- $34,000
Annual Program Administration - $8,500

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E2. Emergency Respondent Resource Lists

IMPLEMENTATION:

Research and Documentation of Resources = 2 man months = $34,000
  - Equipment
  - Personnel

$34,000

ANNUAL PROGRAM ADMINISTRATION:

Annual Upkeep and Maintenance = ½ man month = $ 8,500

$ 8,500
PROJECT TITLE:
Emergency and Maintenance Vehicle Warning Systems

PROJECT TRACKING ID:
T0001

STATE FISCAL YEAR(S):
2000

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Complete research to determine the state-of-the-art of vehicle hazard warning and lighting systems
• Procure and install modern and prototype vehicle hazard sensing and warning systems
• Procure and install modern vehicle warning light systems to enhance vehicle visibility on freeways
• Install hazard warning systems and warning light systems on:
  - Law enforcement vehicles
  - County highway maintenance vehicles
  - Fire and emergency medical system response vehicles
  - Other traffic incident response vehicles

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project does not involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
Complete research and recommendations of hazard warning and vehicle lighting systems - 2/00
Identify agencies for participation in system installation and evaluation - 4/00
Complete procurement and installation of equipment - 6/00

PROJECT COSTS:
Implementation - SFY00 - $200,000
Annual Operating and Maintenance by committed local agency resources

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Freeway Safety Patrols

PROJECT TRACKING ID:
T9907

STATE FISCAL YEAR(S):

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
GCM Program Plan

PROJECT DESCRIPTION:
• Contract for continuation of law enforcement courtesy patrols in Milwaukee County
• Contract for continuation of private tow truck Gateway Patrols in Racine & Kenosha Counties
• Expand Gateway-type motorist assistance along freeways in Waukesha, Washington, & Ozaukee
• Assist stranded motorists and those involved in crashes, relocate them to Crash Investigation Sites
• Assist law enforcement and emergency service personnel in responding to major incidents
• Assist law enforcement in managing incidents during periods of intense inclement weather

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will not consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
Solicit bids for continuation of Gateway Patrols - 5/99
Execute agreements to continue & expand Milwaukee County Patrols - 5/99
Introduce Gateway-type service along US41-45 in Waukesha & Washington Counties - 3/00
Introduce Gateway-type service along I-94 in eastern Waukesha County - 3/00
Introduce Gateway-type service along I-43 in southern Ozaukee County - 3/01

PROJECT COSTS:
SFY99 - $3,000,000
SFY03 - $2,000,000
SFY04 - $2,500,000
SFY05 - $2,500,000
SFY06 - $2,500,000

Last Revision 10/00
EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Traffic Response Unit (Pilot: Racine / Kenosha Counties)

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
A Traffic Response Unit further supports law enforcement, tow agencies, maintenance departments, and other emergency service responders with traffic control during major/minor incidents, highway maintenance/construction, etc. The services provided by the Traffic Response Unit include: the ability to deploy traffic control quickly and provide a safe environment for law enforcement, tow agencies, maintenance departments, and other emergency service responders to work within. A Traffic Response Unit includes a team of public works/maintenance personnel as well as a law enforcement patrol support services. Typical equipment may include, but is not limited to:

Public Works/Maintenance
- Vehicle – Enclosed Step Van
- Push Bumper
- Arrow Board
- Portable Changeable Message Sign
- Collapsible Lane Closed Signs
- Traffic Cones
- Oil Dry
- Communication Equipment
- On-Call and Overtime Staffing

Law Enforcement Patrol
- Total Station
- Push Bumpers
- Arrow Sticks
- Flares
- Collapsible Lane Closed Signs
- Traffic Cones

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not consist of consultant services
PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx- $307,017
Annual Operating and Maintenance – SFYxx - $106,769
               SFYxx - $107,649
               SFYxx - $108,573

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E4.(c) Traffic Response Unit (Pilot: Racine / Kenosha Counties)

IMPLEMENTATION:

Equipment = $307,017
$307,017*

ANNUAL OPERATING AND MAINTENANCE:

Year 1 = $106,769
Year 2 = $107,649
Year 3 = $108,573
$322,991*

* A detailed cost estimate follows.
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<tr>
<th></th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capital Costs</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Racine County TRU Squad</strong></td>
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<tr>
<td>Total Station Equipment</td>
<td>1</td>
<td>$35,000</td>
<td>$35,000</td>
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<tr>
<td>SETINA PB 300 Push Bumpers</td>
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<td>$130</td>
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<td>Federal Smart Vector Light Systems with Controls</td>
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<td>Turbo Flare Electronic Flares with Charging Stick</td>
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<td>Collapsible Lane Closed Signs</td>
<td>4</td>
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<td>$1,360</td>
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<td>Total Station Equipment</td>
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<td>SETINA PB 300 Push Bumpers</td>
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<td>Code 3 Arrow Stick Light</td>
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<td>Code 3 Arrow Stick Switch</td>
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<td>Shipping and Handling - Other Equipment</td>
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<tr>
<td><strong>Racine County TRU Vehicle</strong></td>
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<tr>
<td>Vehicle - Enclosed Step Van</td>
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<td>$42,000</td>
<td>$42,000</td>
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<tr>
<td>SETINA PB 300 Push Bumper</td>
<td>1</td>
<td>$130</td>
<td>$130</td>
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<tr>
<td>Arrow Board (Mounted on rear of vehicle)</td>
<td>1</td>
<td>$5,000</td>
<td>$5,000</td>
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<tr>
<td>Portable Changeable Message Sign</td>
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<td>$35,000</td>
<td>$35,000</td>
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<tr>
<td>Collapsible Lane Closed Signs</td>
<td>8</td>
<td>$340</td>
<td>$2,720</td>
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<tr>
<td>Traffic Cones</td>
<td>125</td>
<td>$30</td>
<td>$3,750</td>
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<tr>
<td>Oil Dry</td>
<td>L.S.</td>
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<td>$300</td>
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<tr>
<td>Communication Equipment - Multi-Channel (min. 8) Radio, Cell Phone, Pager</td>
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<td>$3,000</td>
<td>$3,000</td>
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<tr>
<td><strong>Kenosha County TRU Vehicle</strong></td>
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<tr>
<td>Vehicle - Enclosed Step Van</td>
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<td>Vehicle Storage Provisions</td>
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<td>$130</td>
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<td>Communication Equipment - Multi-Channel (min. 8) Radio, Cell Phone, Pager</td>
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<td>Contingency 10%</td>
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<td><strong>TOTAL CAPITAL COST</strong></td>
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### Operating and Maintenance Costs

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<th>Item</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
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<tbody>
<tr>
<td><strong>Staffing</strong></td>
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<td></td>
</tr>
<tr>
<td>On-Call Racine County</td>
<td>1</td>
<td>$ -</td>
<td>$ -</td>
</tr>
<tr>
<td>(On-call costs are not necessary due to current contract arrangements)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>On-Call Kenosha County</td>
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<td>$ 10,000</td>
<td>$ 10,000</td>
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<tr>
<td>(On-call costs are necessary due to current contract arrangements)</td>
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<tr>
<td>Overtime Racine County</td>
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<td>$ 3,000</td>
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<tr>
<td>(Assume 100 hours overtime per year)</td>
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<tr>
<td>Overtime Kenosha County</td>
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<td>$ 3,000</td>
</tr>
<tr>
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<td><strong>Maintenance</strong></td>
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<td>Racine County TRU Vehicle</td>
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<td>Spare Parts (3% of Equipment Costs)</td>
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<td>Rental Equipment</td>
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<td>Supplemental WisDOT Maintenance Budget</td>
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<td><strong>TOTAL OPERATING AND MAINTENANCE COST</strong></td>
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**TOTAL YEAR 1**

(CAPITOL AND OPERATING AND MAINTENANCE COSTS)

**$ 413,786**

### YEAR 2

<table>
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<th>Item</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
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<tbody>
<tr>
<td><strong>Operating and Maintenance Costs</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Staffing</strong></td>
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<td></td>
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</tr>
<tr>
<td>On-Call Racine County</td>
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<td>$ -</td>
</tr>
<tr>
<td>(On-call costs are not necessary due to current contract arrangements)</td>
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<tr>
<td>On-Call Kenosha County</td>
<td>1</td>
<td>$ 10,500</td>
<td>$ 10,500</td>
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<tr>
<td>(On-call costs are necessary due to current contract arrangements)</td>
<td></td>
<td></td>
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<tr>
<td>Overtime Racine County</td>
<td>1</td>
<td>$ 3,150</td>
<td>$ 3,150</td>
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<tr>
<td>(Assume 100 hours overtime per year)</td>
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<tr>
<td>Overtime Kenosha County</td>
<td>1</td>
<td>$ 3,150</td>
<td>$ 3,150</td>
</tr>
<tr>
<td>(Assume 100 hours overtime per year)</td>
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<tr>
<td><strong>Maintenance</strong></td>
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</tr>
<tr>
<td>Racine County TRU Vehicle</td>
<td>1</td>
<td>$ 2,000</td>
<td>$ 2,000</td>
</tr>
<tr>
<td>Kenosha County TRU Vehicle</td>
<td>1</td>
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<td>$ 2,000</td>
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<tr>
<td>Factory Repairs (5% of Equipment Costs)</td>
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<td>$ 15,351</td>
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<tr>
<td>Spare Parts (3% of Equipment Costs)</td>
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<tr>
<td>Rental Equipment</td>
<td>L.S.</td>
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<td>Supplemental WisDOT Maintenance Budget</td>
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<td><strong>SUBTOTAL</strong></td>
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<tr>
<td>Contingency 10%</td>
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<td><strong>TOTAL YEAR 2 (OPERATING AND MAINTENANCE COST)</strong></td>
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<td>$ 107,649</td>
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Last Revision 10/00
## YEAR 3

### Operating and Maintenance Costs

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<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
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<tbody>
<tr>
<td><strong>Staffing</strong></td>
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<tr>
<td>On-Call Racine County</td>
<td>1</td>
<td>$ -</td>
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<tr>
<td>(On-call costs are not necessary due to current contract arrangements)</td>
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<tr>
<td>On-Call Kenosha County</td>
<td>1</td>
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<td>(On-call costs are necessary due to current contract arrangements)</td>
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<tr>
<td>Overtime Racine County (Assume 100 hours overtime per year)</td>
<td>1</td>
<td>$3,308</td>
<td>$3,308</td>
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<tr>
<td>Overtime Kenosha County (Assume 100 hours overtime per year)</td>
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<td>$3,308</td>
<td>$3,308</td>
</tr>
<tr>
<td><strong>Maintenance</strong></td>
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<tr>
<td>Racine County TRU Vehicle</td>
<td>1</td>
<td>$2,000</td>
<td>$2,000</td>
</tr>
<tr>
<td>Kenosha County TRU Vehicle</td>
<td>1</td>
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<td>$2,000</td>
</tr>
<tr>
<td>Factory Repairs (5% of Equipment Costs)</td>
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<td>Spare Parts (3% of Equipment Costs)</td>
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<td>Rental Equipment</td>
<td>L.S.</td>
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<tr>
<td>Supplemental WisDOT Maintenance Budget</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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<td>Contingency 10%</td>
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<td><strong>TOTAL YEAR 3 (OPERATING AND MAINTENANCE COST)</strong></td>
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<td>$108,573</td>
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</table>

Note: Assume annual staff increases of 5% per year
PROJECT TITLE:
Remote Incident Traffic Control

PROJECT TRACKING ID:
T0110

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Procure traffic control devices such as barricades, cones, static signs, illuminated directional signs, flares, HAZMAT containment devices/materials
• Procure trailers to be utilized for transport of the control devices to incident scenes

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Bid devices and trailer - 8/00
Procure devices and trailers - 10/00

PROJECT COSTS:
Implementation - SFY01 - $500,000
Annual Operating and Maintenance - $30,000

EVALUATION PROVISIONS:
This project will be evaluated as part of Incident Management Evaluation Program
PROJECT TITLE:
HAZMAT Program

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
A HAZMAT Program may include one or both of the following components:

a. HAZMAT Clearance Enhancement Program
   • Improve HAZMAT Cargo Identification
   • Designate and Enforce Specific HAZMAT Routes
   • Legislation
   • Streamline Environmental Regulations
   • Measures to Expedite the Overall HAZMAT Clearance Process

b. Training/Improved Awareness for HAZMAT may include elements such as the incorporation of HAZMAT training in law enforcement certification, annual workshops, and better awareness of HAZMAT movement on the freeway system.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx- $102,000
Annual Program Administration - $38,500

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E5.(a-b) HAZMAT Program

IMPLEMENTATION:

Program Development and Documentation = 6 man months = $102,000

ANNUAL PROGRAM ADMINISTRATION:

Workshops* = $ 30,000
- Site Fee
- Speaker/Expert Travel Expenses
- Refreshments / Lunch
- Preparation

Annual Upkeep and Maintenance = ½ man month = $ 8,500

* Assumes two one-day workshops each year.
PROJECT TITLE:
Inter-Jurisdictional Mutual Aid Agreements

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Inter-Jurisdictional Mutual Aid Agreements are formal documents allowing agencies from multiple jurisdictions to respond to emergencies including freeway incidents. This project may also include the mapping of the “closest” incident response resources to ensure the most efficient and effective resources are dispatched for incident management.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx- $20,000
Annual Program Administration - $8,500

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
E6. Inter-Jurisdictional Mutual Aid Agreements

IMPLEMENTATION:
Develop Inter-Jurisdictional Mutual Aid Agreements = 1 man month = $17,000
- Identify Needs and Opportunities
- Meetings
Legal Assistance = $ 3,000

$20,000

ANNUAL PROGRAM ADMINISTRATION:
Annual Agreement Renewal Activities = ½ man month = $ 8,500

$ 8,500
PROJECT TITLE:
Traffic Incident Management Policies

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
The development of Traffic Incident Management Policies includes:
- Research of similar policies/standards/guidelines in other areas of the country;
- Documentation; and,
- Implementation

It is assumed that approximately 1-2 traffic incident management policies will be developed each year.

Examples of Traffic Incident Management Policies include:
  a. Incident Command System Policy – Development of a policy to enhance incident command system efficiency.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Annual Program Administration - $34,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
E7.(a-b) Traffic Incident Management Policies

ANNUAL PROGRAM ADMINISTRATION:

Research and Documentation* = 2 man months $34,000

* Assumes the development of 1-2 traffic incident management policies each year.
PROJECT TITLE:
Operational Policies for CVOs

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

a. Heavy Vehicle Clearance Recommendations – Heavy Vehicle Clearance Recommendations may include the development of heavy vehicle clearance guidelines and/or the procurement of specialized heavy vehicle clearance equipment such as air cushion recovery systems, etc.

b. Legislation to Reduce Trucking Related Incidents – Development of trucking legislation (guidelines) that restricts lane use, speed, and weight of commercial vehicles.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx- $151,000
Annual Operating and Maintenance - $5,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E8.(a-b) Operational Policies for CVOs

IMPLEMENTATION:
Development and Documentation of Guidelines = 2 man months = $ 34,000
Development of Legislation = 1 man month = $ 17,000
Pilot Test Equipment = $100,000

$151,000

ANNUAL OPERATING AND MAINTENANCE:
Annual Operating and Maintenance (5% of Equipment Cost) = $ 5,000

$ 5,000
PROJECT TITLE:
Traffic Incident Management Demonstrations / Training Exercises

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Traffic Incident Management Demonstrations / Training Exercises are On-Going Joint Agency Exercises that focus on the implementation of communication strategies between agencies. Demonstrations may include presentations on heavy vehicle clearance, vehicle extrication, etc. Training exercises may include tabletop exercises on freeway emergencies such as winter weather and major incidents. It is assumed that approximately 1-2 traffic incident management demonstrations / training exercises will be conducted each year.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Annual Program Administration - $30,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E9.(a) Traffic Incident Management Demonstration / Training Exercises

ANNUAL PROGRAM ADMINISTRATION:

Demonstrations / Training Exercises* = $30,000
- Site Fee
- Speaker/Expert Travel Expenses
- Preparation

$30,000

* Assumes 1-2 traffic incident management demonstrations / training exercises each year.
PROJECT TITLE:
Comprehensive Dispatcher Training

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Comprehensive Dispatcher Training may entail traffic incident management education at regular intervals (bi-annually) to discuss new/updated programs and procedures. The following is a list of potential traffic incident management education/training topics that have been identified:

a. Dispatcher Enhanced Reference Sign Education is an effort to educate 911 dispatchers about the appropriate use of Enhanced Reference Signs and the importance of asking motorists, who are reporting incidents (e.g. stalled vehicles, accidents, etc.), to notice the reference signs and use them to describe the location of the incident.

b. Once Evacuation and Alternate Route Plans are developed, dispatchers need to be trained in their use.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Annual Program Administration - $30,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
E10.(a-b) Comprehensive Dispatcher Training

ANNUAL PROGRAM ADMINISTRATION:

Training* = $30,000
- Site Fee
- Preparation

* Assumes 2 half-day dispatcher training sessions each year.
PROJECT TITLE:
Freeway Law Enforcement Patrol

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
A Freeway Law Enforcement Patrol is a sheriff department staffed patrol dedicated to the enforcement and prevention of drunk driving, road rage, crash, and excessive speed violations on the freeway system.

The initial project tasks include:
• Evaluation/research of similar programs in other areas of the country and
• Development of a project proposal.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx- $42,500

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E11. Freeway Enforcement Patrol

IMPLEMENTATION:
Research = ½ man month = $ 8,500
Develop / Document Project Proposal = 2 man months $34,000
$42,500
PROJECT TITLE:
Incident Management Equipment Alternate Storage Sites

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Storing equipment required for incident response near high incident locations instead of one central location could reduce the time needed to respond to and clear an incident. Equipment that is typically located at Incident Management Equipment Alternate Storage Sites include:
• Portable Changeable Message Signs;
• Portable Traffic Signals;
• Portable Traveler Advisory Radio Units; and
• Other Traffic Control Equipment (e.g. traffic cones, collapsible lane closed signs, etc.)

This project entails the design and implementation of five storage facilities as well as the procurement of the necessary equipment for incident response.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation - SFYxx- $791,350
Annual Operating and Maintenance - $33,000

EVALUATION PROVISIONS:
(to be determined)
**PROJECT TITLE:**  
E12. Incident Management Equipment Alternate Storage Sites

**IMPLEMENTATION:**

Identify Storage Site Design = 1 man month = $17,000  
Policy Development = 1 man month = $17,000  
Property Acquisition = $100,000  
Storage Facilities (5) = $150,000

Equipment
- Portable Changeable Message Signs (5) = $175,000  
- Portable Traffic Signals (10) = $150,000  
- Portable Traveler Advisory Radio (5) = $150,000  
- Cones = $18,750  
- Collapsible Lane Closed Signs (40) = $13,600

**ANNUAL OPERATING AND MAINTENANCE:**

Annual Operating and Maintenance = $33,000  
(~5% of Equipment and Storage Facilities Cost) $33,000
PROJECT TITLE:
Portable Changeable Message Signs

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Portable Changeable Message Signs are similar to permanent Variable Message Signs (VMS), but are smaller in size and mobile (portable). They include a power supply and are typically mounted on trailers or in the bed of a pick-up truck. These signs can also be made semi-permanent by installing concrete “pads” along the roadway with provisions for power and communications. Messages can be programmed in the field or from a control center via radio transmission or cellular telephone. As a result, displayed messages are easily updated as traffic conditions change. Portable Changeable Message Signs have proven to be effective for providing traveler information in incident or construction zones as well as at special events where other forms of alerting motorists to dangerous or congested traffic conditions are not available.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx- $209,000
Annual Operating and Maintenance - $8,750

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E13. Portable Changeable Message Signs

IMPLEMENTATION:

Policy Development = 1 man month = $ 17,000
Equipment Procurement and Location Identification = 1 man month = $ 17,000
Equipment
- Portable Changeable Message Signs (5) = $175,000

$209,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $ 8,750
(5% of Equipment Cost) $ 8,750
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 1999-2000
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
TESCNET Inter-CAD, Phase 2B

PROJECT TRACKING ID:
T9908

STATE FISCAL YEAR(S):
1999

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Project would complete phased deployment of a data and information sharing network for public safety (Emergency Management Systems) and transportation (Transportation Management Systems) dispatch and communication center facilities in SE Wisconsin
- Project would speed flow of information between agencies responding to major and minor traffic incidents to ensure the safety of responding personnel and to reduce incident duration
- Phase 2B would consist of the procurement, installation, and integration of the final elements of a Milwaukee County Sheriff Department (MCSD) base CAD system, the design of a data sharing link (data processing and communications specifications) to share information between the MCSD base CAD system and the MONITOR Freeway Traffic Management System, and the design of similar data sharing links to provide capabilities for interface with other regional public safety agencies

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project may involve consultant services to assist local agencies.

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation - SFY99 - $500,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program

Last Revision 10/00
PROJECT TITLE: 
TESCNET Inter-CAD, Phase 2C

PROJECT TRACKING ID: 
T0003

STATE FISCAL YEAR(S): 
2000

SPONSOR: 
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN: 
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION: 
• Project would complete phased deployment of a data and information sharing network for public safety (Emergency Management Systems) and transportation (Transportation Management Systems) dispatch and communication center facilities in SE Wisconsin
• Project would speed flow of information between agencies responding to major and minor traffic incidents to ensure the safety of responding personnel and to reduce incident duration
• Phase 2C would consist of design to address equipment procurement, software development and integration, deploy voice communications interagency interfaces with TIME public safety agencies throughout SE Wisconsin, and design a data sharing network for SE Wisconsin transportation management agencies consistent with regional ITS architecture

EARMARKING CONSIDERATION: 
This project may be funded through a federal earmark

CONSULTANT SERVICES: 
This project may involve consultant services to assist local agencies.

PROJECT SCHEDULE OR MILESTONES: 
(to be determined)

PROJECT COSTS: 
Design and Implementation - SFY00 - $500,000

EVALUATION PROVISIONS: 
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
TESCNET Inter-CAD, Phase 3, 4

PROJECT TRACKING ID:
T0109

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Project would complete phased deployment of a data and information sharing network for public safety (Emergency Management Systems) and transportation (Transportation Management Systems) dispatch and communication center facilities in SE Wisconsin
• Project would speed flow of information between agencies responding to major and minor traffic incidents to ensure the safety of responding personnel and to reduce incident duration
• Phase 3 would integrate a Milwaukee County CAD mapping layer or capability
• Phase 4 would integrate a Milwaukee County Automated Vehicle Location capability for Milwaukee County Sheriff.

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project may involve consultant services to assist local agencies.

PROJECT SCHEDULE OR MILESTONES:
Consultant contract for InterCAD Network design - 12/99
Complete system design and architecture - 4/00
Agency contract for implementation of Phases 3 & 4 - 5/00
Complete detailed Phased design for full project - 12/00

PROJECT COSTS:
Design and Implementation - SFY00 - $1,000,000
Annual Operating and Maintenance - $80,000
Annual Operations and Maintenance by D2 SFY 00-01 Tier 1 Projects and committed local agency resources

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
TESCNET Inter-CAD – Phase 5 and 6 Design

PROJECT TRACKING ID:
T0202

STATE FISCAL YEAR(S):
2002

SPONSOR:
DTD, District Two, Freeway Operations Unit, Milwaukee County Sheriff Department

PROJECT PARTICIPANTS OR ORIGIN:
Wisconsin State Patrol, Milwaukee County Department of Public Works

PROJECT DESCRIPTION:
• Expand and adapt 800 MHz trunked radio and MDN systems and interfaces
• Procure and install EMS & Highway Department MDTs & GPS AVL units
• Procure and install EMS & Highway Department CAD workstations
• Incorporate transit data sharing
• Design regional Inter-CAD network
• Procure and install CAD enhancements for a Milwaukee County Transportation and Public Safety Records Management System
• Procure, install and integrate communications, data processing, and other equipment to implement the regional InterCAD network
• Integrate Inter-CAD with the SE Wisconsin Transportation Information HUB

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark.

CONSULTANT SERVICES:
This project will involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
Consultant contract for design of regional InterCAD network – 9/00
Complete system design and architecture - 2/01
Complete equipment procurement – 12/01
Complete integration of systems – 12/02

PROJECT COSTS:
Design - SFY01 - $800,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
TESCNET Inter-CAD – Phase 5 and 6 Deployment

PROJECT TRACKING ID:
T0302

STATE FISCAL YEAR(S):
2003

SPONSOR:
DTD, District Two, Freeway Operations Unit, Milwaukee County Sheriff Department

PROJECT PARTICIPANTS OR ORIGIN:
Wisconsin State Patrol, Milwaukee County Department of Public Works

PROJECT DESCRIPTION:
- Expand and adapt 800 MHz trunked radio and MDN systems and interfaces
- Procure and install EMS & Highway Department MDTs & GPS AVL units
- Procure and install EMS & Highway Department CAD workstations
- Incorporate transit data sharing
- Procure and install CAD enhancements for a Milwaukee County Transportation and Public Safety Records Management System
- Procure, install and integrate communications, data processing, and other equipment to implement the regional Inter-CAD network
- Integrate Inter-CAD with the SE Wisconsin Transportation Information HUB

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark.

CONSULTANT SERVICES:
This project will involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
Consultant contract for design of regional Inter-CAD network – 9/00
Complete system design and architecture - 2/01
Complete equipment procurement – 12/01
Complete integration of systems – 12/02

PROJECT COSTS:
Implementation - SFY03 - $2,500,000
Annual Operating and Maintenance - $90,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
project title:
TESCNET Emergency Service Video and Data Sharing - Pilot

project tracking id:
T0004

state fiscal year(s):
2000

sponsor:
DTD, District Two, Freeway Operations Unit, Milwaukee County Sheriff Department

project participants or origin:
Traffic Incident Management Enhancement (TIME) Program Blueprint

project description:
The TESCNET Emergency Service Video and Data Sharing Pilot is expected to enhance incident management and video surveillance in Southeastern Wisconsin by providing evaluation/testing of existing video equipment, providing for the procurement of additional video transmitting and receiving devices and the procurement of enhanced aerial surveillance and remote video access equipment for the WisDOT and local agencies including the Milwaukee Fire Department, Milwaukee County Sheriff Department, etc.

This project may also address the development of internet based traffic video sharing. Internet based video sharing will allow local agencies not already receiving direct video transmissions from the WisDOT Traffic Operations Center to access a website and acquire live “streaming” video images of freeway and arterial traffic from WisDOT surveillance cameras. This would provide quick and simple access for communities that are not yet directly linked to the WisDOT Traffic Operations Center.

Another element of this project may involve the procurement of additional traffic surveillance devices for the Milwaukee County Sheriff Department helicopter. This surveillance equipment will consist of an additional antenna placed on the helicopter and three mobile receiving stations to view the transmitted video.

The final element of this project may be the procurement of various video transmitting and receiving equipment to enable enhanced video quality distribution and reliability for the continued surveillance of the area freeways.

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will not involve consultant services
PROJECT SCHEDULE OR MILESTONES:
Notification of interest – 9/99
Request for proposals – 5/00
Interviews – 6/00
Selection – 6/00
Negotiations and Scoping – 7/00
Work Order Submittal – 7/00
Contract Submittal – 8/00
Project Completion – 5/01

PROJECT COSTS:
Implementation - SFY00 - $235,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
TESCNET Backbone Fixed Plant Design and Procurement

PROJECT TRACKING ID:
T0005, T0203

STATE FISCAL YEAR(S):
2000, 2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Communications & Data System Infrastructure Strategic Plan (pending)

PROJECT DESCRIPTION:
• Design freeway-based communications network for transportation mgmt. & emergency services
• Support exchange of voice, video and data between emergency service and transportation mgmt.
• Complete procurement and construction phases of the communications network deployment
• Complete and modify existing MONITOR communications network
• Provide system integration services for connection & testing of comm. media and end-equipment
• Implement a portion of the Communications & Data Systems Infrastructure Strategic Plan

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
The design component of this project will involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
• Complete CDSI Strategic Plan - 3/99
• Complete memoranda of understanding with target entities - 11/99
• Complete design of emergency services communications network - 3/00
• Complete procurement and installation of equipment - 12/00

PROJECT COSTS:
Design - SFY00 - $800,000
Implementation - SFY 01-$1,500,000
Annual Operations and Maintenance by D2 SFY00-01 Tier 1 projects & committed local agency resources

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
TESCNET Backbone Wireless

PROJECT TRACKING ID:
T0303

STATE FISCAL YEAR(S):
2001

SPONSOR:
TIME Enhanced Freeway Patrol Task Force

PROJECT PARTICIPANTS OR ORIGIN:
Milwaukee County Sheriff, DPW, TIME Emergency Service Providers, Tow Operators

PROJECT DESCRIPTION:
This project would supplement the TESCNET Inter-CAD project and provide increased system functionality by designing and implementing voice radio system equipment to enable direct voice communication between traffic incident responders.

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark.

CONSULTANT SERVICES:
This project may involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
Begin design - 8/99
Complete design – 8/00
Procure equipment – 11/00
Implement and test – 2/01

PROJECT COSTS:
Design and Implementation - SFY01 - $2,000,000
Annual Operating and Maintenance - $80,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
AVL (Emergency/Maintenance/Transit Vehicles)

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
AVL or Automatic Vehicle Location is a technology typically used for tracking the location of public safety/law enforcement, maintenance and transit units in real time. This technology will reduce response times by allowing dispatchers to deploy the unit closest to the incident scene. The systems would include the in-vehicle equipment, the communication infrastructure to the appropriate agencies, and the technology required for the agency to interpret the information received from the vehicle.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx - $251,000
Annual Operating and Maintenance - $20,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E14.(i) AVL (Emergency/Maintenance/Transit Vehicles)

IMPLEMENTATION:

Design = 3 man months = $51,000

Equipment
  - Initial Pilot Test = $200,000

$251,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $20,000
(10% of Equipment Cost)  $20,000

Last Revision 10/00
PROJECT TITLE:
LIFELINK Design and Deployment

PROJECT TRACKING ID:
T0002, T0108

STATE FISCAL YEAR(S):
2000, 2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Project would replicate technology that has been deployed in San Antonio to relay patient data and live video bi-directionally between mobile paramedic ambulance and a trauma center.
• Phase A of the project would consist of:
  - Conceptual design and preliminary engineering that incorporates ITS project architecture
  - Complete plans and specifications for procurement of project components
  - Install equipment and complete full system integration and testing prior to conducting an operational test to be evaluated by UW-Madison, UWM, Marquette, and Medical College of WI
• Phase B of the project would expand coverage throughout Milwaukee County
• Phase C of the project would expand functional capabilities
• Phase D of the project would expand to rural settings to incrementally accommodate statewide deployment

EARMARKING CONSIDERATION:
Earmark funding may be considered for this project.

CONSULTANT SERVICES:
This project may involve consultant services to assist local agencies.

PROJECT SCHEDULE OR MILESTONES:
Complete conceptual design (current CDSI contract) - 9/99
Complete system design, architecture, and equipment procurement specifications - 5/00
Let construction contracts - 8/00
Execute local agency contracts for procurement - 8/00
Start operational test - 1/01

PROJECT COSTS:
Design - SFY00 - $500,000
Implementation - SFY01 - $1,400,000
Annual Operating and Maintenance - $90,000
Annual Operations and Maintenance by D2 SFY 00-01 Tier 1 Projects & committed local agency resources
EVALUATION PROVISIONS:
Project will be evaluated by the Wisconsin ITS Evaluation and Technology Development Alliance (UW-Madison, UWM, Marquette, Medical College of Wisconsin)
PROJECT TITLE:
911 Enhancements

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Emergency Telephone Call-In 911 Enhancements would predominantly be implemented by telephone companies and/or cellular telephone providers and may potentially include items such as one-touch termination or transfer to minimize call loads for dispatch personnel. These technological advancements will allow 911 dispatchers to more efficiently handle incoming telephone calls.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Costs will be assumed by telephone companies/cellular providers

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
E15.(a) 911 Enhancements

IMPLEMENTATION:

Costs will be assumed by telephone companies and cellular telephone providers.
PROJECT TITLE:
“Total Station” Survey System and Laser Measuring Devices for Crash Investigation

PROJECT TRACKING ID:
T0112

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Review and select crash measurement equipment for procurement and testing
• Procure total station survey equipment and laser radar distance measurement equipment
• Coordinate testing and evaluation of equipment by law enforcement

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Review, select and specify measurement equipment (TIME Program Support) - 12/98
Complete project plans and agreements with state and local law enforcement - 3/01
Complete procurement - 6/01
Begin testing and evaluation of Crash Measurement Equipment Project - 1/02

PROJECT COSTS:
Implementation - SFY01 - $200,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Aerial Photography

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Aerial Photography involves the utilization of helicopter or airplane video cameras to record vital incident scene data. This project will include the procurement of video and communication equipment necessary to record incident scene data and operator training.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx - $300,000
Annual Operating and Maintenance - $30,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E16.(b) Aerial Photography

IMPLEMENTATION:

Program Set-Up and Training = $100,000

Equipment = $200,000

$300,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $ 30,000
(10% of Training and Equipment Cost) $ 30,000
PROJECT TITLE:
Voice Communications Enhancements

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Voice Communications Enhancements may include technical and/or policy advancements that improve the communication abilities between responding agencies at an incident scene. FIRECOM is one example of a voice communication enhancement that provides the ability for Sheriff and Fire Departments to talk via radio at an incident scene through a special dispatcher patch.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx - $502,000
Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E17.(a) Voice Communication Enhancements

IMPLEMENTATION:

Needs Assessment = 6 man months = $102,000
Equipment Enhancements = $400,000

$502,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $  50,000

$  50,000
PROJECT TITLE:
Freeway Fire Hydrants

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

a. Fire Hydrant Location Identification markers or signs along the freeway right of way indicate the presence of a nearby fire hydrant. These signs reduce the time necessary to locate the nearest fire hydrant, particularly in areas provided with sound barriers and during large accumulations of snow cover. These markers or signs enable fire departments to reduce incident time involving fires.

b. Additional Freeway Fire Hydrants are needed in freeway interchange locations and within the right of way at high incident locations to reduce fire related incident times.

The initial study may include the following or similar project tasks:

- Inventory Existing Fire Hydrants that are in Proximity to the Freeway
- Determine Need for Additional Locations for Fire Hydrants in System Interchanges and High Incident Locations
- Prepare Fire Hydrant Signing Alternatives
- Fire Hydrant and Signing Deployment
- Fire Hydrant and Signing (Procurement / PS&E)

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:

a. Design and Implementation - SFYxx - $93,000
   Annual Operating and Maintenance - $2,100
b. Design and Implementation - SFYxx - $960,000
   Annual Operating and Maintenance - $30,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
E18.(a-b) Freeway Fire Hydrants

IMPLEMENTATION:

a. Fire Hydrant Location Identification
   - Inventory = 3 man months = $ 51,000
   - Field Work
   - Documentation
   Markers (700) = $ 21,000
   - Supply
   - Install
   Fire Hydrant Plate Signs = $ 21,000
   - Supply
   - Install
   $ 93,000

b. Additional Freeway Fire Hydrants
   - Design and PS&E = $360,000
   - Fire Hydrant Installation = $600,000
     - Potential Location at each major interchange $960,000
       • North
       • Zoo
       • Mitchell
       • Marquette
       • Hale
       • Stadium

ANNUAL OPERATING AND MAINTENANCE:

a. Fire Hydrant Location Identification
   - Annual Operating and Maintenance = $ 2,100
     (5% of Equipment Cost)
     $ 2,100

b. Additional Freeway Fire Hydrants
   - Annual Operating and Maintenance = $ 30,000
     (5% of Fire Hydrant Installation Cost)
     $ 30,000
**PROJECT TITLE:**
Highway Watch

**PROJECT TRACKING ID:**

**STATE FISCAL YEAR(S):**
(to be determined)

**SPONSOR:**
DTD, District Two, Freeway Operations Unit

**PROJECT PARTICIPANTS OR ORIGIN:**
Traffic Incident Management Enhancement (TIME) Program Blueprint

**PROJECT DESCRIPTION:**
The *Highway Watch* is a strategy to enlist and train commercial truck drivers to report freeway incidents such as crashes, vehicle breakdowns, and adverse weather conditions via cellular telephone. A special telephone number to reach 911 may be issued to designate the priority of a trained incident reporter.

A *Permanent Highway Watch Program* improves incident detection and verification time and can improve response time by providing detailed and accurate incident information to 911 dispatch.

**EARMARKING CONSIDERATION:**
(to be determined)

**CONSULTANT SERVICES:**
This project will not consist of consultant services

**PROJECT SCHEDULE OR MILESTONES:**
(to be determined)

**PROJECT COSTS:**
Program Administration - SFYxx - $51,000
Annual Program Administration - $25,500

**EVALUATION PROVISIONS:**
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E19.(a) Highway Watch

IMPLEMENTATION:

Program Development Study = 2 man months = $34,000
Training = 1 man month = $17,000
$51,000

ANNUAL OPERATING AND MAINTENANCE:

Program Maintenance = ½ man month = $8,500
Training / Evaluation = 1 man month = $17,000
$25,500
PROJECT TITLE:
MONITOR Closed Circuit Television (CCTV) Video Sharing – Emergency Responders

PROJECT TRACKING ID:
T0107

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Communications & Data System Infrastructure Strategic Plan (pending)

PROJECT DESCRIPTION:
• Install communications and control equipment to share freeway video with emergency services
• Integrate systems at MONITOR Traffic Operations Center and emergency dispatch centers
• Target video sharing with:
  - Wisconsin State Patrol - District Two
  - Racine, Kenosha, and Waukesha County Sheriffs
  - Racine, Kenosha, and Waukesha County Highway Departments
  - Primary Towing Contractors
  - Milwaukee, Wauwatosa, West Allis, Brookfield, North Shore, Greenfield, Oak Creek Fire Depts.
  - Milwaukee, Wauwatosa, West Allis, Brookfield, Bayside, Greenfield, Oak Creek Police
• Expands GCM Emergency Service Video & Data Sharing Project (1000-31-38)

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project may include some consultant services for system integration services

PROJECT SCHEDULE OR MILESTONES:
Complete CDSI Strategic Plan - 3/99
Complete memoranda of understanding with target entities - 5/99
Complete procurement and installation of equipment - 11/00

PROJECT COSTS:
Design and Implementation - SFY01 - $500,000
Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the TIME Program Evaluation Project
PROJECT TITLE:
MONITOR Closed Circuit Television (CCTV) Video Sharing – Maintenance Departments

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Communications & Data System Infrastructure Strategic Plan (pending)

PROJECT DESCRIPTION:
• Install communications and control equipment to share freeway video with maintenance departments
• Integrate systems at MONITOR Traffic Operations Center and maintenance department dispatch centers
• Target video sharing with:
  - County Public Works Departments
  - County Highway/Maintenance Departments
• Expands GCM Emergency Service Video & Data Sharing Project (1000-31-38)

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may include some consultant services for system integration services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation - SFY0X - $500,000
Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E20.(b) MONITOR Closed Circuit Television (CCTV) Video Sharing – Maintenance Departments

IMPLEMENTATION:

Design and Implementation

\[ \text{Design and Implementation} = 500,000 \]
\[ \text{\$500,000} \]

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance

\[ \text{Annual Operating and Maintenance} = 50,000 \]
\[ \text{\$50,000} \]

(10% of Design and Implementation Cost)

\[ \text{(10\% of Design and Implementation Cost)} = \text{\$50,000} \]
PROJECT TITLE:
Aerial Surveillance Expansion

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Procurement of equipment to be used by Sheriff Departments for Aerial Surveillance during traffic incidents.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project may include some consultant services for system integration services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx - $501,000
Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
E20.(c) Aerial Surveillance Expansion

IMPLEMENTATION:

Design = 3 man months = $51,000
Equipment = $450,000

$501,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $50,000

$50,000

Last Revision 10/00
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Regional ITS Architecture Administration

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
A Regional ITS Architecture Administration will include support necessary to update the regional ITS Architecture on an annual basis as new transportation and public safety projects are implemented.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Annual Program Administration - $100,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
C1. Regional ITS Architecture Administration

ANNUAL PROGRAM ADMINISTRATION:

Annual Program Administration = $100,000
$100,000
PROJECT TITLE:
Alternate Route Planning and Traffic Control Plans

PROJECT TRACKING ID:
T0117

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Review and update Integrated Corridor Operations Project routes with public safety agencies
- Identify alternate surface street routes typically used for traffic diversion during freeway incidents
- Identify additional alternate surface street routes that may be used for freeway traffic diversion
- Update and supplement available inventories of traffic patterns and traffic control along these routes
- Develop detailed maps, traffic control plans, and traveler information schemes for these routes
- Identify and implement alternate route plan administration processes and mechanisms
- Produce office and field reference material to guide setup and operation of alternate routes

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 4/00
Complete identification of freeway corridor alternate routes - 10/00
Complete supplemental inventory of corridor routes - 3/01
Complete production of reference material - 6/01

PROJECT COSTS:
Design and Implementation - SFY01 - $300,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Traveler Information Standards

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Consistent standards for effectively and efficiently providing traveler information to motorists via variable message signs, travel advisory radio, the media or other traveler information methods will decrease driver confusion, and improve safety. This project could include an inventory of current traveler information standards and a regional traveler information public opinion survey. The inventory would identify standards currently being used nationally for information dissemination and the survey would help identify preferred “language” for information dissemination to the traveling public within Wisconsin. The operation policy specifically for Variable Message Signs (VMSs) would be included as part of this project. A VMS Operation Policy would help eliminate vague messages, promote aggressive operation, provide consistent messages, consider diversion messages, and provide effective operator training.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx - $102,000
Annual Program Administration - $17,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
C3.(a) Traveler Information Standards

PROGRAM ADMINISTRATION:
Develop Policies and Standards = 6 man months = $102,000

ANNUAL PROGRAM ADMINISTRATION:
Annual Program Administration = 1 man month = $17,000
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Establish MONITOR Archival Data Support

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
By establishing an archival data support system for MONITOR, many agencies and programs could benefit from the availability of reliable, current, transportation data. This project would examine the various types of data management systems available and determine the most suitable system in order to be compatible with the current and future MONITOR system and the regional ITS architecture. This project would include any hardware, software, and communication devices necessary for archival data support.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx - $504,000
Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
C4.(a) Establish MONITOR Archival Data Support

IMPLEMENTATION:
Design = 12 man months = $204,000
Equipment = $300,000

$504,000

ANNUAL OPERATING AND MAINTENANCE:
Annual Operating and Maintenance = $ 50,000

$ 50,000
PROJECT TITLE:
Enhanced MONITOR Operations

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Enhanced MONITOR Operations involves more effective and efficient use of existing MONITOR system elements, such as CCTV, VMS, HAR, Ramp Meters, etc. This may be achieved through Traffic Operations Center operator training and development of policies and standards that state when and how to use the different elements.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx - $68,000
Annual Program Administration - $34,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
C4.(b) Enhanced MONITOR Operations

PROGRAM ADMINISTRATION:

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<tr>
<th>Activity</th>
<th>Man Months</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Develop Policies, Standards, and Procedures</td>
<td>3</td>
<td>$51,000</td>
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<tr>
<td>Training</td>
<td>1</td>
<td>$17,000</td>
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ANNUAL PROGRAM ADMINISTRATION:

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<th>Activity</th>
<th>Man Months</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Update and Develop Additional Policies/Standards/Procedures</td>
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<tr>
<td>Training</td>
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PROJECT TITLE:
MONITOR 2010

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
This project includes Expansion of the MONITOR system to other areas in Southeastern Wisconsin such as Waukesha, Racine, and Kenosha Counties. Expansion may include communication infrastructure, equipment, and any hardware/software associated with the following MONITOR elements:

- System Detector Stations;
- Closed Circuit Television;
- Communication Infrastructure;
- Ramp Metering;
- Variable Message Signs;
- Changeable Overhead Lane Control Signs; and
- Traveler Advisory Radio.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation
MONITOR 2010 Preliminary Engineering SFY03 - $3,000,000
2010 Stage 1 Design SFY 04 - $2,000,000
2010 Stage 1 Construction SFY 05 - $10,000,000
2010 Stage 2 Design SFY 06 - $2,000,000
Annual Operating and Maintenance - $2,000,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
C4.(c) MONITOR 2010

DESIGN AND IMPLEMENTATION:
MONITOR 2010 Preliminary Engineering = $ 3,000,000
2010 Stage 1 Design = $ 2,000,000
2010 Stage 1 Construction = $10,000,000
2010 Stage 2 Design = $ 2,000,000
$17,000,000

ANNUAL OPERATING AND MAINTENANCE:
Annual Operating and Maintenance = $ 2,000,000
(~10% of Design and Implementation Costs) $ 2,000,000
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Crash Investigation Sites Design and Construction

PROJECT TRACKING ID:
T0205/T0308

STATE FISCAL YEAR(S):
2002, 2003

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Complete design of freeway crash investigation sites based upon pending system wide study
- Complete PS&E for critical sites in Milwaukee, Waukesha, Ozaukee & Washington Counties
- Specific site deployments are likely to include:
  - Minor pavement modifications in Park & Ride lots and on frontage roads and surface streets
  - Installation of specialized telephone equipment to serve stranded motorists
  - Installation or modification of site lighting and monitoring facilities
  - Signing to guide motorists to sites, to designate sites, and to guide motorists in using sites

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
The design component of this project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Solicit, select, and contract for consultant support of design - 10/01
Review and select CIS that will not be incorporated into other improvement projects - 12/01
Complete PS&E - 6/02
Complete construction - 4/03

PROJECT COSTS:
Design - SFY02 - $300,000
Implementation - SFY03 - $2,000,000
Annual Operating and Maintenance - $70,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program

Last Revision 10/00
PROJECT TITLE:
Crash Investigation Sites Maintenance

PROJECT TRACKING ID:
T0115

STATE FISCAL YEAR(S):

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Complete design of freeway crash investigation sites based upon pending system-wide study
- Complete PS&E for critical sites in Milwaukee, Waukesha, Ozaukee & Washington Counties
- Specific site deployments are likely to include
  - Minor pavement modifications in Park & Ride lots and on frontage roads and surface streets
  - Installation of specialized telephone equipment to serve stranded motorists
  - Installation or modification of site lighting and monitoring facilities
  - Signing to guide motorists to sites, to designate sites, and to guide motorists in using sites

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project.

CONSULTANT SERVICES:
This project will not involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
Prepare contracts and agreements for CIS maintenance services - 10/00
Execute procurement and local agency agreements - 2/01
Begin 2000 maintenance services under contracts and agreements - 3/01
Begin 2001 maintenance services under contracts and agreements - 1/02

PROJECT COSTS:
SFY01 - $100,000
SFY02 - $200,000
SFY03 - $200,000
SFY04 - $200,000
SFY05 - $200,000
SFY06 - $200,000

EVALUATION PROVISIONS:
This project will be evaluated in the context of internal DOT business reviews
PROJECT TITLE:
Enhanced Reference Signs Design and Construction

PROJECT TRACKING ID:
T0206, T0309

STATE FISCAL YEAR(S):
2002, 2003

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Complete design of freeway ELMS based upon system wide study
• Complete PS&E for critical sites in Racine, Kenosha, Waukesha, Ozaukee & Washington Counties
• Specific installations are likely to include milepost signs or light pole signs the clarify highway designation, direction of travel, sub-mile reference point

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project.

CONSULTANT SERVICES:
The design component of this project will involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
Solicit, select, and contract for consultant support of design - 10/99
Review and select CIS that will not be incorporated into other improvement projects - 12/99
Complete PS&E - 6/02
Complete construction - 4/03

PROJECT COSTS:
Design - SFY02 - $50,000
Implementation - SFY03 - $450,000
Annual Operating and Maintenance - $50,000
Annual Operations and Maintenance by periodic D2 Tier 1 projects to begin in SFY02

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Enhanced Reference Signs Maintenance

PROJECT TRACKING ID:
T0207

STATE FISCAL YEAR(S):
2002

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Provide routine maintenance and necessary replacements of Enhanced Location Markings and Signings

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project.

CONSULTANT SERVICES:
The design component of this project will involve consultant services.

PROJECT SCHEDULE OR MILESTONES:
Develop maintenance contract - 10/01
Begin routine maintenance - 1/01

PROJECT COSTS:
SFY02 - $200,000
SFY05 - $400,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Signal Enhancements

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

a. **Signal System Hardware Upgrades** include those upgrades to arterial traffic signal systems necessary for implementation of state-of-the-art arterial traffic management practices including advanced signal timing, phasing, and coordination. Controller/cabinet change-outs, addition of loop detectors, and provision of hard-wire signal interconnection are examples of hardware upgrades typically necessary for implementation of incident-related traffic signal timings on alternate routes.

b. **Surface Street Electronic Traffic Monitoring** includes installing system loop detectors and closed circuit television (CCTV) on arterials typically used as alternative routes during freeway incidents. These monitoring devices will also help emergency respondents determine the fastest routes to the incident site.

c. **Traffic Signal / Ramp Meter Integration** helps address arterial congestion in the vicinity of a metered ramp through coordinated operations between traffic signals and ramp meters.

d. **Enhanced Emergency Responder Traffic Signal Control** would allow a traffic signal to automatically change to “green” to permit emergency vehicles to proceed through an intersection. Preemption can also be used at ramp meters by allowing queued vehicles to be discharged.

e. **Inter-Jurisdictional Traffic Signal Coordination** provides greater mobility to diverted and emergency response vehicles by allowing for “seamless” arterial signal progression. Inter-jurisdictional traffic signal coordination could be enhanced through the implementation of signal system hardware upgrades; as well as coordinated emergency vehicle and bus signal preemption.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

Last Revision 10/00
PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:

a. Design and Implementation - SFYxx - $1,000,000
   Annual Operating and Maintenance - $100,000
b. Design and Implementation - SFYxx - $6,000,000
   Annual Operating and Maintenance - $600,000
c. Design and Implementation – SFYxx - $100,000
   Annual Operating and Maintenance - $10,000
d. Design and Implementation – SFYxx - $100,000
   Annual Operating and Maintenance - $10,000
e. Design and Implementation – SFYxx - $304,000
   Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
C7.(a-e) Signal Enhancements

DESIGN AND IMPLEMENTATION:

a. Signal System Hardware Upgrades
   Design and Implementation = $1,000,000
   Assumes controller/cabinet change-outs and installation of supplemental loop detectors for 100 intersections. Locations to be determined.

b. Surface Street Electronic Traffic Monitoring
   Design and Implementation = $6,000,000
   Assumes design/implementation for 25 arterial centerline miles of electronic traffic monitoring with 2 CCTV cameras, 2 system detector stations, existing communications per mile.

c. Traffic Signal / Ramp Meter Integration
   Design and Implementation = $ 100,000
   Assumes design/construction/implementation of 10 traffic signals and ramp meters.

d. Enhanced Emergency Responder Traffic Signal Control
   Design and Implementation = $ 100,000
   Assumes development/design/implementation of 20 advanced traffic signal control interfaces to be used by emergency responders.

e. Inter-Jurisdictional Traffic Signal Coordination
   Study = 12 man months = $ 204,000
   Design and Implementation = $ 100,000
   Assumes one-year study to identify needs for linking TIME strategies with the Integrated Corridor Operations Project (ICOP).

ANNUAL OPERATING AND MAINTENANCE:

a. Signal System Hardware Upgrades
   Annual Operating and Maintenance = $100,000
   (10% of Design and Implementation Costs)

b. Surface Street Electronic Traffic Monitoring
   Annual Operating and Maintenance = $600,000
   (10% of Design and Implementation Costs)
c. Traffic Signal / Ramp Meter Integration
   Annual Operating and Maintenance = $10,000
   (10% of Design and Implementation Costs) $10,000

d. Enhanced Emergency Responder Traffic Signal Control
   Annual Operating and Maintenance = $10,000
   (10% of Design and Implementation Costs) $10,000

e. Inter-Jurisdictional Traffic Signal Coordination
   Annual Operating and Maintenance = $50,000
   $50,000
PROJECT TITLE:
Use of Traffic Warnings

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Traffic Warning Devices can be used to alert motorists of excessive speed under certain roadway (e.g. tight curves, narrow lanes, etc.) and weather (e.g. wet, icy, etc.) conditions. Traffic warning devices may include, but are not limited to pavement markings (e.g. converging chevrons, transverse pavement markings, etc.), flashing lights, variable message signs, and static signs.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation - SFYxx - $746,000
Annual Operating and Maintenance – $35,600

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
C8.(a) Use of Traffic Warnings

IMPLEMENTATION:

Identify Design = 1 man month = $17,000
Policy Development = 1 man month = $17,000

Equipment
- Pavement Markings = $30,000
- Flashing Lights (4) = $240,000
- Full Matrix Freeway Variable Message Sign (2) = $440,000
- Static Signs (8) = $2,000

$746,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $35,600
(5% of Equipment Cost) $35,600
PROJECT TITLE:
Speed Incident Prevention Project

PROJECT TRACKING ID:
T0111

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Plan and design multifaceted project to warn and slow speeding freeway motorists
• Incorporate vehicle classification and speed detection and warning subsystems
• Integrate driver education and traveler awareness strategies and components
• Deploy detectors and traveler warning devices
• Contract with law enforcement agencies for targeted enforcement

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Complete planning of project components (TIME Program Support) - 12/98
Execute contracts and agreements with law enforcement agencies - 2/00
Complete procurement, design and necessary construction contract documents - 3/00
Procure and construct necessary project hardware - 8/01
Begin testing and evaluation of Speed Incident Prevention Project - 1/02

PROJECT COSTS:
Design and Implementation - SFY01 - $800,000
Annual Operating and Maintenance - $80,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Variable Message Signs

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Variable Message Signs (VMS) are electronic signs equipped with a lighted display capable of displaying a message. VMSs provide information on traffic conditions, causes of delay, traffic diversions, anticipated travel times, incidents, weather conditions, etc. Signs are typically placed at key entry and decision points to allow travelers an opportunity to choose alternate routes if necessary.

a. Delay Signing at Ramp Meters could consist of VMSs at ramp meter locations providing travelers with real-time delay information. Knowing the current delay time at a ramp meter would allow the motorists the ability to make a more informed decision of whether to wait at the ramp meter or to continue on the surface streets. These dynamic delay signs could be installed at any of the current 93 ramp meters and/or the 28 new ramp meters anticipated by 2002.

b. Variable Message Signs Mounted on Pre-Existing Signs for Emergency Information could provide motorists with current lane or exit ramp closure information in the event of an incident. These proposed VMSs would be less expensive than the current freeway overhead VMSs since they may be smaller in size and mounted on existing freeway signs.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:

a. Design and Implementation - SFYxx - $300,000
   Annual Operating and Maintenance - $30,000
b. Design and Implementation – SFYxx - $200,000
   Annual Operating and Maintenance - $20,000
EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
C9.(a-b) Variable Message Signs

DESIGN AND IMPLEMENTATION:

a. Delay Signing at Ramp Meters
   Design and Implementation = $300,000
   = $300,000
   Assumes design/construction of five Variable Message Signs.

b. Variable Message Signs Mounted on Pre-Existing Signs for Emergency Information
   Design and Implementation = $200,000
   = $200,000
   Assumes design/construction of five Variable Message Signs.

ANNUAL OPERATING AND MAINTENANCE:

a. Delay Signing at Ramp Meters
   Annual Operating and Maintenance = $30,000
   (10% of Design and Implementation Costs) = $30,000

b. Variable Message Signs Mounted on Pre-Existing Signs for Emergency Information
   Annual Operating and Maintenance = $20,000
   (10% of Design and Implementation Costs) = $20,000
PROJECT TITLE:
Regional Multi-Agency Traffic Management Center

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
A Regional Multi-Agency Traffic Management Center provides for improved incident management coordination by co-locating personnel from responsible agencies. Regional Multi-Agency Traffic Management Centers typically incorporate traffic management, roadway maintenance, law enforcement, media, transit, and/or emergency personnel. Project elements may include:
  • Traffic Management Center
  • Communication Equipment

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation - SFYxx - $2,000,000
Annual Operating and Maintenance - $500,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
C10. Regional Multi-Agency Traffic Management Center

DESIGN AND IMPLEMENTATION:
Design and Implementation = $2,000,000
$2,000,000

ANNUAL OPERATING AND MAINTENANCE:
Annual Operating and Maintenance = $500,000
$500,000
PROJECT TITLE:
Probe Traffic Information

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Probe vehicles could be utilized to provide real-time traffic information. The probe vehicles would consist of transit, paratransit, maintenance, taxis or delivery fleet vehicles that frequently travel the freeway and arterial systems. The vehicles would communicate real-time travel information including travel speeds and delays automatically to the traffic operations center. This project would include selection, purchase and installation of vehicle tracking technology, along with determination and acquisition of the required technology for the traffic operations center to utilize the probe data.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx - $500,000
Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
C11. Probe Traffic Information

DESIGN AND IMPLEMENTATION:

Study = 12 man months = $204,000

Equipment = $296,000

$500,000

ANNUAL OPERATING AND MAINTENANCE:

Update Study and Evaluation = 1 man month = $17,000

Annual Operating and Maintenance
(~10% of Equipment Cost) = $33,000

$50,000
PROJECT TITLE:
In-Vehicle Traveler Information

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
In-Vehicle Traveler Information systems may include radio signals that have the ability to override the radio/tape/cd player settings in order to broadcast current travel conditions or computer screens that can automatically display current travel conditions.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation - SFYxx - $284,000
Annual Operating and Maintenance - $75,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
C12. In-Vehicle Traveler Information

DESIGN AND IMPLEMENTATION:

Study and Policy Development = 2 man months = $ 34,000

Equipment
  Radio Signal = $ 50,000
  Broadcast Equipment = $ 100,000
  Radio Tower = $ 100,000
  $ 284,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $ 75,000
  - Radio Signal $ 75,000
  - Equipment Upgrades / Repairs
DRAFT

ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
TIME Program Evaluation

PROJECT TRACKING ID:
T9902

STATE FISCAL YEAR(S):
2001, 2003, 2005

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Contract for consultant services to support continuing evaluation of the TIME Program
• Quantitatively and qualitatively evaluate specific TIME deployment projects and activities
• Evaluate the ongoing effectiveness of the administration of the overall TIME Program
• Recommend expansion, modification, or termination of specific TIME deployment activities
• Determine the cost-effectiveness of specific TIME projects

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project may continue existing relationships with the academic community

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation - 6/00
Consultant selection and scoping - 8/00
Execute consultant contract - 9/00
Issue notice to proceed - 10/00

PROJECT COSTS:
SFY01 - $300,000
SFY03 - $300,000
SFY05 - $300,000
(Propose full encumbrance in SFY01)

EVALUATION PROVISIONS:
This project is an evaluation project. Therefore, it will not require a separate evaluation.
PROJECT TITLE:
Freeway Access Enhancements for Emergency Response Vehicles

PROJECT TRACKING ID:
T0304

STATE FISCAL YEAR(S):
2003

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Freeway Access Enhancements for Emergency Response Vehicles may include the design and construction of the following or similar projects:

a. Freeway Access Enhancements for Emergency Response Vehicles include the provision of u-turns, median crossover turnarounds, or gated entrances at non-interchange locations to allow emergency respondents easier/quicker access to freeway incidents.

b. Traffic Signal and Ramp Meter Emergency Vehicle Preemption is a technology that allows a traffic signal to automatically change to “green” to permit emergency vehicles to proceed through an intersection or entrance ramp. Preemption is typically provided by an optical or radio sensor at intersections or entrance ramps along pre-specified emergency routes. A preemption system allows emergency vehicles to respond to incidents in less time. For instance, preemption can be used at ramp meters by allowing queued vehicles to be discharged therefore minimizing emergency vehicle response time.

c. Freeway Design Enforcement Accommodations include the provision of concrete pads on the freeway right of way for law enforcement patrols and additional space (e.g. wider shoulders, High Occupancy Vehicle (HOV) lanes) on freeway entrance ramps so that law enforcement can move around traffic to get onto the freeway.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation - SFY03 - $1,000,000
EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
Ramp Closure Gates

PROJECT TRACKING ID:
T0208

STATE FISCAL YEAR(S):
2002

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Complete construction contracts for freeway ramp gates
- Install gates to temporarily close freeway entrance ramps during freeway incidents
- Expand location of gates currently being installed and tested

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Complete review of current freeway ramp gate design (TIME Program Support) - 12/99
Complete procurement, design and necessary construction contract documents - 3/02
Begin deployment of new (additional) freeway ramp gates - 8/02

PROJECT COSTS:
Design and Implementation - SFY02 - $500,000
Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Detour Signing

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
b. When entrance ramps are closed due to a major incident or inclement weather appropriate Detour Signs need to be in place to alert motorists of the closure and inform them of alternate routes. Project costs may include development of alternate route plans and procedures for deployment of detour signs and the signs/sign assemblies.

c. “Trail Blazer” Route Guidance Signing is used to guide diverted travelers along alternate routes and back to freeway. Signs are typically located along the route and at turning or decision making points. Signs may be permanent or portable, static or variable. Project costs may include development of alternate route plans and procedures for deployment of “trail blazer” signs and the signs/sign assemblies.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Design and Implementation - SFYxx - $320,500
Annual Operating and Maintenance - $42,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
C15.(b-c) Detour Signing

DESIGN AND IMPLEMENTATION:

Alternate Route Plans
- Meeting Coordination and Participation = 2 man months = $ 34,000
- Study = 4 man months = $ 68,000

Detour Signs (100) = $ 20,000

Trailblazer Signs (8 intersections)
- Arrow Assembly (32) = $ 42,000
- By-Pass Assembly (32) = $ 42,000
- Controller (8) = $ 12,000
- Relay Assembly (8) = $ 2,500
- Other Communication Equipment = $ 100,000

$ 320,500

ANNUAL OPERATING AND MAINTENANCE:

Review / Update Alternate Route Plans = 1 man month = $ 17,000

Annual Operating and Maintenance = $ 25,000
(~10% of Equipment Cost) $ 42,000

Last Revision 10/00
PROJECT TITLE:
Weather Information Gathering and Dissemination Systems

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

a. Weather Information Gathering System and Dissemination Equipment includes the ability to gather weather information from reliable sources (e.g. mobile pavement temperature sensors, National Weather Service, etc.) and make this information available to the appropriate agencies (e.g. WisDOT, maintenance/DPW, public safety/law enforcement, etc.) through communication links.

b. Mobile Pavement Temperature Sensors could be installed on law enforcement and maintenance vehicles to detect pavement temperatures and potential icy and wet surface conditions.

c. Automated Weather Information could be disseminated via Highway Advisory Telephone (HAT), Highway Advisory Radio (HAR), or website to warn motorists of severe weather conditions. Weather stations at high incident locations could also be effective in alerting motorists of poor travel conditions. This project could also investigate the potential benefits of utilizing existing variable message signs to display weather “watch” or “warning” information.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:

a. Design and Implementation - SFYxx - $200,000
Annual Operating and Maintenance - $15,000
b. Design and Implementation – SFYxx - $200,000
Annual Operating and Maintenance - $15,000
c. Design and Implementation – SFYxx - $100,000
Annual Operating and Maintenance - $10,000
EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
C16.(a-c) Weather Information Gathering and Dissemination Systems

DESIGN AND IMPLEMENTATION:

a. Weather Information Gathering System and Dissemination Equipment
   Design / Study = 4 man months = $68,000
   Equipment = $132,000
   $200,000

b. Mobile Pavement Temperature Sensors
   Design / Study = 4 man months = $68,000
   Equipment = $132,000
   $200,000

c. Automated Weather Information
   Design / Study = 2 man months = $34,000
   Equipment = $66,000
   $100,000

ANNUAL OPERATING AND MAINTENANCE:

a. Weather Information Gathering System and Dissemination Equipment
   Annual Operating and Maintenance = $15,000
   (~10% of Equipment Cost)
   $15,000

b. Mobile Pavement Temperature Sensors
   Annual Operating and Maintenance = $15,000
   (~10% of Equipment Cost)
   $15,000

c. Automated Weather Information
   Annual Operating and Maintenance = $10,000
   (~15% of Equipment Cost)
   $10,000
PROJECT TITLE: Locating Systems

PROJECT TRACKING ID:

STATE FISCAL YEAR(S): (to be determined)

SPONSOR: DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN: Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

a. *Mayday Systems/GPS Locating Systems* include in-vehicle systems that automatically communicate emergency “help” signals via Global Positioning Satellites (GPS) to appropriate authorities. Since the systems can be activated automatically the motorists does not have to use a cellular phone or other technology to contact 911 in case of an emergency. With the GPS Locating Systems, the location of the vehicle is also automatically disseminated. This type of in-vehicle system would be especially beneficial in rural areas where there are few other motorists on the road to report incidents. The systems would include the in-vehicle equipment, the communication infrastructure to the appropriate agencies, and the technology required for the agency to interpret the information received from the vehicle.

b. *Cellular Telephone Locating Systems* utilize the latest cellular technology to quickly and accurately pin point the location of the originating call. This technology will quickly identify freeway incident location even if the caller is unable to verbally communicate or if the caller does not know their location. If a large number of cellular phone calls are received from an area the traffic operations center could automatically be notified to observe the area.

c. *AVL or Automatic Vehicle Location* is a technology typically used for tracking the location of public safety/law enforcement and maintenance units in real time. This technology will reduce response times by allowing dispatchers to deploy the unit closest to the incident scene. The systems would include the in-vehicle equipment, the communication infrastructure to the appropriate agencies, and the technology required for the agency to interpret the information received from the vehicle.

EARMARKING CONSIDERATION: (to be determined)

CONSULTANT SERVICES: This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES: (to be determined)
PROJECT COSTS:
- a. Design and Implementation - SFYxx - $750,000
  Annual Operating and Maintenance - $50,000
- b. Cost Assumed by Cellular Telephone Providers
- c. Design and Implementation – SFYxx - $251,000
  Annual Operating and Maintenance - $20,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
C17.(a-c) Locating Systems

DESIGN AND IMPLEMENTATION:

a. Mayday Systems / GPS Locating Systems
   System Development Study = 12 man months = $ 204,000
   Equipment = $ 546,000
   Assumes equipment for pilot deployment in 20 vehicles.

b. Cellular Telephone Locating Systems
   Cost assumed by cellular telephone providers

c. Automatic Vehicle Location
   Design = 3 man months = $ 51,000
   Equipment
      - Initial Pilot Test = $200,000
   $251,000

ANNUAL OPERATING AND MAINTENANCE:

a. Mayday Systems / GPS Locating Systems
   Annual Operating and Maintenance = $ 50,000
   (~10% of Equipment Cost) $ 50,000

b. Cellular Telephone Locating Systems
   Cost assumed by cellular telephone providers

c. Automatic Vehicle Location
   Annual Operating and Maintenance = $ 20,000
   (10% of Equipment Cost) $ 20,000
PROJECT TITLE:
Integrated Corridor - Test Segment Design

PROJECT TRACKING ID:
T9910

STATE FISCAL YEAR(S):
2001

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Milwaukee County, and other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
• Incorporate preliminary engineering into project and corridor O&M agreements with local agencies
• Complete PS&E’s for I-94/I-43 test segment, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along I-94/I-43 test segment

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 8/00
Complete Integrated Corridor PS&E - 10/01

PROJECT COSTS:
Design - SFY01 - $500,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Integrated Corridor - Test Segment Construction

PROJECT TRACKING ID:
T0116

STATE FISCAL YEAR(S):
2001

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Milwaukee County, and other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
• Complete PS&E’s for I-94/I-43 test segment, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along I-94/I-43 test segment

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 8/00
Complete Integrated Corridor PS&E - 10/01
Begin construction - 6/02
Complete construction - 10/02

PROJECT COSTS:
Implementation - SFY01 - $2,500,000
Annual Operating and Maintenance - $120,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program

Last Revision 10/00
PROJECT TITLE:
Integrated Corridor - I-894/USH-45 Design

PROJECT TRACKING ID:
T0209

STATE FISCAL YEAR(S):
2002

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Milwaukee County, and other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
• Incorporate preliminary engineering into project and corridor O&M agreements with local agencies
• Complete PS&E’s for I-894, USH 45 Integrated Corridor, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along I-894/USH 45

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 8/00
Complete Integrated Corridor PS&E - 10/01

PROJECT COSTS:
Design - SFY02 - $1,000,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Integrated Corridor - I-894/USH-45 Construction

PROJECT TRACKING ID:
T0310

STATE FISCAL YEAR(S):
2003

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Milwaukee County, and other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
• Complete PS&E’s for I-894,USH 45 Integrated Corridor, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along I-894/USH 45

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 8/00
Complete Integrated Corridor PS&E - 10/01
Begin construction - 6/02
Complete construction - 10/02

PROJECT COSTS:
Implementation - SFY02 - $5,000,000
Annual Operating and Maintenance - $230,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Integrated Corridor - I-894/I-43 Design

PROJECT TRACKING ID:
T0210

STATE FISCAL YEAR(S):
2001

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Milwaukee County, City of Milwaukee, other local agencies

PROJECT DESCRIPTION:
- Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
- Incorporate preliminary engineering into project and corridor O&M agreements with local agencies
- Complete PS&E's for I-43/I-894 Integrated Corridor, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
- Complete system integration and testing of operational Integrated Corridor along I-43/I-894

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 8/00
Complete Integrated Corridor PS&E - 10/01

PROJECT COSTS:
Design - SFY02 - $1,000,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Integrated Corridor - I-894/I-43 Construction

PROJECT TRACKING ID:
T0311

STATE FISCAL YEAR(S):
2003

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Milwaukee County, City of Milwaukee, other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-894/I-43 Corridor preliminary engineering study & report
• Complete PS&E’s for I-43 Integrated Corridor, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along I-43/I-894

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 8/00
Complete Integrated Corridor PS&E - 10/01
Begin construction - 6/02
Complete construction - 10/02

PROJECT COSTS:
Implementation - SFY03 - $5,000,000
Annual Operating and Maintenance - $230,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Integrated Corridor – 43/Marquette Interchange Design

PROJECT TRACKING ID:
T0401

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Milwaukee County, and other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
• Incorporate preliminary engineering into project and corridor O&M agreements with local agencies
• Complete PS&E’s for 43/Marquette Interchange Integrated Corridor, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along 43/Marquette Interchange

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution -
Complete Integrated Corridor PS&E -

PROJECT COSTS:
Design – SFY04 - $2,000,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Integrated Corridor – 43/Marquette Interchange Construction

PROJECT TRACKING ID:
T0501

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Milwaukee County, and other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
• Complete PS&E’s for 43/Marquette Interchange Integrated Corridor, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along 43/Marquette Interchange

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution –
Complete Integrated Corridor PS&E -
Begin construction -
Complete construction -

PROJECT COSTS:
Implementation – SFY05 - $10,000,000
Annual Operating and Maintenance - $460,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program

Last Revision 10/00
PROJECT TITLE: Integrated Corridor – 94 Racine/Kenosha Design

PROJECT TRACKING ID: T0502

STATE FISCAL YEAR(S): (to be determined)

COMMITTED PROJECT LEADER (OR CO-LEADERS): TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

COMMITTED PROJECT PARTNERS: Traffic Incident Management Enhancement (TIME) Program Blueprint
Racine County, Kenosha County, and other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
• Incorporate preliminary engineering into project and corridor O&M agreements with local agencies
• Complete PS&E’s for 94 Racine/Kenosha Integrated Corridor, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along 94 Racine/Kenosha

EARMARKING CONSIDERATION: This project may be funded through a federal earmark

CONSULTANT SERVICES: This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - Complete Integrated Corridor PS&E -

PROJECT COSTS:
Design – SFY05 - $400,000

EVALUATION PROVISIONS: This project will be evaluated as part of the Incident Management Evaluation Program
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Integrated Corridor – 94 Racine/Kenosha Construction

PROJECT TRACKING ID:
T0601

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
TIME Corridor Traffic Management Committee, DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint
Racine County, Kenosha County, and other local agencies

PROJECT DESCRIPTION:
• Update preliminary ICOP strategies through I-43 Corridor preliminary engineering study & report
• Complete PS&E’s for 94 Racine/Kenosha Integrated Corridor, likely to include:
  - Surface street traffic data and video surveillance subsystems
  - Modern traffic-responsive or adaptive traffic signal systems
  - Static & dynamic traffic signing and other traveler information devices and subsystems
  - Traffic signal and traveler information equipment to enhance transit service
• Complete system integration and testing of operational Integrated Corridor along 94 Racine/Kenosha

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution -
Complete Integrated Corridor PS&E -
Begin construction -
Complete construction -

PROJECT COSTS:
Implementation – SFY06 - $2,000,000
Annual Operating and Maintenance - $100,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Policies for Installing Integrated Corridors Communication Conduit in Rehabilitation/Reconstruction Projects

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Policies for Installing Integrated Corridors Communication Conduit in Rehabilitation/Reconstruction Projects would promote the placement of a compatible communication network throughout the major corridors in the region. By having a policy in place, the installation of communication conduit would become a part of the design and construction of many rehabilitation/reconstruction projects that otherwise would not address the installation of ITS technology. Incorporating the conduit installation into the design and construction phases of other projects is more cost effective than having a separate conduit installation project. While this project would address changes in policy only, funding would be necessary for outreach/in-reach materials and documentation of policy changes.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx - $40,000
Annual Program Administration - $2,500

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
C19. Policies for Installing Integrated Corridors Communication Conduit in Rehabilitation / Reconstruction Projects

DESIGN AND IMPLEMENTATION:

Develop Policies / Standards = 2 man months = $ 34,000

Inreach / Outreach Materials = $ 6,000

$ 40,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $ 2,500
- Review / Update Policies and Standards = $ 2,500
- Inreach / Outreach Materials
PROJECT TITLE:

PROJECT TRACKING ID:
T9909

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
The purpose of the Special Event Transportation Standard Operating and Emergency Management Procedures Manual is to provide guidelines by which the Wisconsin Department of Transportation, special event coordinators, and emergency response agencies can better facilitate safe and efficient arrival and dismissal of special events patrons in Southeast Wisconsin. This manual will identify current practices and develop recommended guidelines for the planning and operation of special events traffic management. This manual will also prescribe an emergency management traffic operation plan to provide consistency and coordination for emergency service responders in the event of a special event evacuation (S1b). This project will also recommend possibilities for the use of non-freeway roadways and Intelligent Transportation Systems (ITS) technologies to better distribute traffic during major special events. A project advisory group will be established with representatives of the agencies affected by special events traffic management.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx - $100,000
Annual Program Administration - $34,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
S1.(a) Special Event Transportation Standard Operating and Emergency Management Procedures Manual

PROGRAM ADMINISTRATION:
Conduct Study and Develop Standard Operating Procedures
= $ 100,000
= $ 100,000

ANNUAL PROGRAM ADMINISTRATION:
Update Study and Standard Operating Procedures = 2 man months = $ 34,000
$ 34,000
PROJECT TITLE:
Emergency Evacuation Plans

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
*Emergency Evacuation Plans* would implement emergency evacuation plans previously developed. This project would include the distribution of the evacuation plans to affected agencies/facilities, installation of any additional signing required, construction/reconstruction modifications required to implement the evacuation plans, and training of agency/facility personnel of implementation of the plans.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx - $268,000
Annual Operations and Maintenance - $32,000

EVALUATION PROVISIONS:
(to be determined)
PROJECT TITLE:
S1.(b) Emergency Evacuation Plans

IMPLEMENTATION:

Study = 3 man months = $ 51,000
Training = 1 man month = $ 17,000
Equipment = $ 200,000
  - Evacuation Signage = $ 268,000
  - Renovations

ANNUAL OPERATING AND MAINTENANCE:

Training = 1 man month = $ 17,000
Annual Operating and Maintenance = $ 15,000
  $ 32,000
PROJECT TITLE:
Pre-Planning for Special Events/Tourism/Construction Activities

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Pre-Planning for Special Events/Tourism/Construction Activities ensures that traffic/transportation issues have been addressed in the early stages of event planning. Transportation professionals would need to work with the Bureau of Tourism, Event Operators, and Chamber of Commerce to develop a coordinated program to improve traffic management for planned events. The Special Event database and Standard Operating Procedures Manual could be utilized during this process.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Annual Program Administration - $50,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
S1.(c) Pre-Planning for Special Events / Tourism / Construction Activities

ANNUAL PROGRAM ADMINISTRATION:

Study / Planning Activities = 2 man months = $ 34,000

Correspondence / Meeting Coordination = $ 16,000

- Workshops $ 50,000
- Tabletop Exercises
- Demonstrations
PROJECT TITLE:
Special Events Parking Management System

PROJECT TRACKING ID:
T0114, T0307

STATE FISCAL YEAR(S):
2001, 2003

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Complete design of parking & traffic management components of previous special events studies
• Incorporate technology & O&M strategies from the Integrated Corridor Operations Project (ICOP)
• Complete PS&E in cooperation with affected local agencies and special event operators
• Deployment is likely to include
  - Parking facility surveillance and monitoring subsystems
  - Relevant corridor traffic management and signal system updates and expansion
  - Computer links to existing and evolving traveler information services (MONITOR, Internet)
  - Dynamic roadside traveler information devices for parking information
  - Coordinated special events Traveler Advisory Radio (TAR) components

EARMARKING CONSIDERATION:
This project will be partially funded through the GCM TEA21 Earmark

CONSULTANT SERVICES:
The design component of this project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Solicit, select, and contract for consultant support of design & procurement - 2/01
Review, select and specify relevant components from draft ICOP Strategic Plan material - 4/01
Complete project agreements with state and local agencies and parking facility operators - 4/01
Specify and procure equipment for partial pilot deployment (installation by agencies) - 6/01
Complete PS&E for full corridor parking management system - 8/01
Complete construction and integration of field, communications, and computer equipment - 4/03

PROJECT COSTS:
Design - SFY01 - $400,000
Implementation - SFY03 - $2,000,000
Annual Operating and Maintenance - $30,000 (beginning after construction)
EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Integration of Road Weather Information

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

a. A Weather Information Study may examine the potential usage of existing and future ITS infrastructure to disseminate emergency weather information. This study would examine the availability, validity, and legal issues related to weather information displayed on VMSs, HAR, TAR, and transportation internet sites.

b. Freeway Emergency Guidelines indicate to law enforcement, maintenance, and transportation professionals and motorists the proper courses of action in various emergency weather situations as well as major incidents. These guidelines could outline usage of ITS infrastructure to disseminate emergency weather information, establish detour routes for major corridors, and outline usage of a tow moratorium and entrance ramp closure gates.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:

a. Program Administration - SFYxx - $102,000
   Annual Program Administration - $17,000

b. Program Administration – SFYxx - $51,000
   Annual Program Administration - $17,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
S3.(a-b) Integration of Road Weather Information

PROGRAM ADMINISTRATION:

a. Weather Information Study
   Study = 6 man months = $ 102,000
   $102,000

b. Freeway Emergency Guidelines
   Study = 6 man months = $ 102,000
   $102,000

ANNUAL PROGRAM ADMINISTRATION:

a. Weather Information Study
   Update Study = 1 man month = $ 17,000
   $17,000

b. Freeway Emergency Guidelines
   Update Guidelines = 1 man month = $ 17,000
   $17,000
DRAFT

ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Regional Mobile Command Posts

PROJECT TRACKING ID:
T0113

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Review mobile command posts and related equipment for procurement and testing
• Procure two (2) mobile command posts to be operated by local emergency service agencies
• Coordinate testing and evaluation of equipment by emergency services and law enforcement

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Review, select and specify mobile command posts and equipment (TIME Program Support) - 12/98
Complete project plans and agreements with state and local law enforcement - 3/00
Complete procurement - 8/01
Begin testing and evaluation of Crash Measurement Equipment Project - 1/02

PROJECT COSTS:
Design and Implementation - SFY01 - $1,000,000
Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program

Last Revision 10/00
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Portable Advance Traffic Management System (ATMS) for Special Events

PROJECT TRACKING ID:
T0305

STATE FISCAL YEAR(S):
2003

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Review portable ATMS and related equipment for procurement and testing
• Procure portable ATMS to be operated by WISDOT (statewide) & local agencies for special events
• ATMS equipment is likely to include:
  - Mobile special event traffic management center
  - Portable traffic detection and video surveillance subsystems
    ▪ Portable/Temporary CCTV for Traffic Control provide traffic management information via video for a relatively short period of time. The CCTV could provide real-time travel condition video to construction supervisors or event operators not on the site, to the traffic operations center, to the media, or to motorists via the Internet. This project would provide for two portable/temporary CCTVs, the communication infrastructure, and any equipment additions or modifications needed for the video to be viewable by the designated agencies.
  - Portable traveler information devices and changeable message signs (CMS)
• Coordinate testing and evaluation of equipment by traffic managers and special event operators

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Review, select and specify special events ATMS equipment (TIME Program Support) - 8/99
Complete project agreements with state and local agencies and special event operators - 9/03
Complete procurement - 12/03
Begin testing and evaluation of - 1/04

PROJECT COSTS:
Design and Implementation - SFY03 - $900,000
Annual Operating and Maintenance - $60,000
EVALUATION PROVISIONS:
This project will be evaluated as part of the Incident Management Evaluation Program
PROJECT TITLE:
Special Events Database

PROJECT TRACKING ID:
T0204, T0306

STATE FISCAL YEAR(S):
2002, 2003

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Complete detailed design of special events ATIS components of CDSI Strategic Plan
- Incorporate necessary software design provisions to MONITOR software
- Procure computer and communications hardware and software for database operations
- Set up and initially maintain special events database linked to real-time MONITOR ATIS functions
- Test and evaluate database and pre-trip ATIS functionality to refine further development

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
The design component of this project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Complete CDSI Strategic Plan - 3/99
Solicit, select, and contract for consultant support of CAD design & procurement - 8/02
Review, select and specify ATIS components of the CDSI Strategic Plan - 10/02
Complete project agreements with state and local agencies and special event operators - 1/03
Complete system design, specifications, and revisions to existing software - 6/03
Complete procurement and integration of communications and computer equipment - 10/03
Begin testing and evaluation - 11/03

PROJECT COSTS:
Design - SFY02 - $400,000
Implementation - SFY03 - $1,600,000
Annual Operating and Maintenance - $40,000 (beginning after construction)

EVALUATION PROVISIONS:
This project will include testing and evaluation by a contracted third party within the project team

Last Revision 10/00
PROJECT TITLE:
Special Event Traveler Information

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

b. **Kiosks** located in shopping malls, hotels, airports, and special event venues provide the public with traveler information in the form of live video from CCTV or descriptions of traffic conditions on various freeway and arterial routes. Information on traffic conditions may include the following: travel times, alternate routes, and construction. Kiosks at airports may also provide “yellow pages” information including hotel, restaurant, and rental car information.

c. **Transit Information at Park and Ride Lots** could be provided via variable message signs (VMSs). The VMSs message may include information pertaining to the approximate arrival time of the next bus for each route. This project would initially provide for two VMSs at Park and Ride Lots (possibly State Fair and Watertown Plank locations) and the communication equipment between the transit vehicles and the VMSs.

d. **An Internet Repository** would consist of a web page that allows users to access regional traveler and special event information. Information provided could include: an interactive schedule of special events; directions from major origins and maps; anticipated construction delays; transit information; real-time traveler information; and links to various other relevant internet sites.

e. **Media Partnerships** could further enhance traveler information dissemination. Local television and radio stations could interface directly with MONITOR travel time, occupancy, speed, variable message signs, and incident information.

f. “**Out of County**” **Driver Information** could be provided to motorists living outside of the region. This information could be available via the Internet. By obtaining travel condition information before entering the region, motorists could select alternative routes to avoid congestion caused by traffic incidents or construction.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

Last Revision 10/00
PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
  b. Design and Implementation - SFYxx - $368,000
  Annual Operating and Maintenance - $30,000
  c. Design and Implementation - SFYxx - $434,000
  Annual Operating and Maintenance - $40,000
  d. Design and Implementation – SFYxx - $105,000
  Annual Operating and Maintenance - $35,000
  e. Design and Implementation – SFYxx - $17,000
  Annual Operating and Maintenance - $1,000
  f. Design and Implementation – SFYxx - $34,000
  Annual Operating and Maintenance - $8,500

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
S5.(b-f) Special Event Traveler Information

DESIGN AND IMPLEMENTATION:

b. Kiosks
   Design = 4 man months = $ 68,000
   Kiosk (3) = $ 300,000
   $ 368,000

c. Transit Information at Park and Ride Lots
   Design = 2 man months = $ 34,000
   Equipment
      Variable Message Signs (2) = $ 300,000
      Communication Infrastructure = $ 100,000
   $ 434,000

d. Internet Repository
   Internet Repository Development = 6 man months = $ 102,000
   Internet Repository Costs = $ 3,000
   $ 105,000

e. Media Partnerships
   Develop/Document Guidelines = 1 man month = $ 17,000
   $ 17,000

f. “Out of County” Driver Information
   Develop Outreach Methods/Materials = 2 man months = $ 34,000
   $ 34,000

ANNUAL OPERATING AND MAINTENANCE:

b. Kiosks
   Annual Operating and Maintenance = $ 30,000
   (10% of Equipment Cost)
   $ 30,000

c. Transit Information at Park and Ride Lots
   Annual Operating and Maintenance = $ 40,000
   (10% of Equipment Cost)
   $ 40,000

d. Internet Repository
   Internet Repository Updates = 2 man months = $ 34,000
   Annual Internet Repository Costs = $ 1,000
   $ 35,000

e. Media Partnerships
   Update Guidelines = $ 1,000
   $ 1,000

Last Revision 10/00
f. “Out of County” Driver Information
   Develop Outreach Methods/Materials = ½ man month = $8,500
   $8,500
PROJECT TITLE:
Transit Initiatives

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Transit Initiatives may include, but are not limited to the following elements:

a. **Kiosks** are monitors that provide traveler information in the form of live video from CCTV or descriptions of traffic conditions on various freeway and arterial routes. When deployed in conjunction with transit initiatives they can also display route and timetable information. Kiosks at typically located at park and ride lots, shopping malls, airports, and special event venues.

b. A **SMART Bus** system may include the following elements:
   - Automatic Vehicle Location – Automatic Vehicle Location is the determination of vehicle location by use of electronic location technology and reporting of that location to a dispatcher.
   - Automatic Vehicle Annunciators
   - Real Time Bus Information Server
   - Automated Passenger Counting – Automatically counts boarding and alighting passengers through the use of infrared beams or treadle mats.
   - Interface with ITS for Roadway Traffic
   - Major Engine Components Diagnostics
   - Audio and Video Security Systems
   - Automatic Fare Collection – Automatic fare payment systems are designed to make payment more convenient for transit users and simplify collection for the transit provider. This is possible through the deployment of technologies that enable transit trips to be paid by non-paper media in advance or by credit. Some technologies include magnetic stripe (swipe card) or smart cards.

c. **Transit Traffic Signal Prioritization** is a technology that allows a traffic signal to automatically change to “green” to permit buses to proceed through an intersection. Transit prioritization is typically provided by an optical or radio sensor at intersections. This provision will allow individual bus routes to remain on schedule and provide a reliable service to travelers.

EARMARKING CONSIDERATION:
(to be determined)
CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
  a. Design and Implementation - SFYxx - $368,000
     Annual Operating and Maintenance - $30,000
  b. Design and Implementation - SFYxx - $1,068,000
     Annual Operating and Maintenance - $100,000
  c. Design and Implementation – SFYxx - $551,000
     Annual Operating and Maintenance - $50,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
S6.(a-c) Transit Initiatives

DESIGN AND IMPLEMENTATION:

a. Kiosks
   Design = 4 man months = $68,000
   Kiosk (3) = $300,000
   $368,000

b. SMART Bus
   Study = 4 man months = $68,000
   Equipment = $1,000,000
   - Communication Infrastructure $1,068,000
   - Hardware/Software
   - Vehicle Technology
   - Other
   $1,068,000

c. Transit Traffic Signal Prioritization
   Study and Design = 3 man months = $51,000
   Equipment = $500,000
   $551,000

Assumes implementation at 25 intersections and in approximately 50 vehicles.

ANNUAL OPERATING AND MAINTENANCE:

a. Kiosks
   Annual Operating and Maintenance = $30,000
   (10% of Equipment Cost)
   $30,000

b. SMART Bus
   Annual Operating and Maintenance = $100,000
   (10% of Equipment Cost)
   $100,000

c. Transit Traffic Signal Prioritization
   Annual Operating and Maintenance = $50,000
   (10% of Equipment Cost)
   $50,000
PROJECT TITLE:
Market Research Study

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

a. *Motorist/Market Research Study* would conduct a “user” study to determine the best approach for TIME program outreach efforts. The study would also assess the current awareness and opinion of the TIME program.

b. The *ITS Branding Initiative* is an initiative undertaken to give Wisconsin’s ITS program outreach components a unified appearance/theme. With branding, the outreach pieces would convey an integrated ITS effort to the public and politicians.

c. *Public Opinion/Response Survey* is a method of adjusting and updating the scope of the TIME Blueprint based on feedback from public.

d. A *Traveler Information Public Opinion Survey* would be conducted to determine which VMS, TAR, media, etc. messages are most clearly understood by travelers within SE Wisconsin. The survey could also assess which modes of information dissemination are most attractive to the public.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx - $150,000
Annual Program Administration - $15,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
O1.(a-d) Market Research Study

PROGRAM ADMINISTRATION:

Program Development

= $ 150,000

$ 150,000

ANNUAL PROGRAM ADMINISTRATION:

Annual Program Administration
(10% of Program Administration Cost)

= $ 15,000

$ 15,000
PROJECT TITLE:
Statewide ITS Coordination

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:

a. *Statewide ITS Users Group* could be initiated to enhance ITS coordination throughout
   the state. The Users Group could promote consistent usage of ITS procedures and technology.
   ITS professionals could benefit from the “lessons learned” by others.

b. *Annual Workshop of all Statewide ITS Projects* could address current and planned ITS
   initiatives throughout the state of Wisconsin.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Annual Program Administration - $45,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
O2.(a-b) Statewide ITS Coordination

ANNUAL PROGRAM ADMINISTRATION:

Develop/Enhance Statewide Project Coordination Efforts = 2 man months = $34,000
Workshop Costs = $11,000

$45,000
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 20xx-20xx
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Build ITS into the State Project Process (Design and Funding)

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
By Building ITS into the State Project Process (Design and Funding), ITS projects will be addressed more appropriately and not forced through an unsuitable process. The technology component of ITS projects requires reconsideration of the current state design process. Because ITS projects are often multi-jurisdictional additional funding processes warrant consideration. This project would include outreach/in-reach materials and documentation of policy changes.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx - $17,000
Annual Program Administration - $1,500

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
O3. Build ITS into the State Project Process (Design and Funding)

PROGRAM ADMINISTRATION:
Develop Outreach/Inreach Materials and Document Policies = 1 man month = $ 17,000

$ 17,000

ANNUAL PROGRAM ADMINISTRATION:
Annual Program Administration

$ 1,500

$ 1,500

Last Revision 10/00
PROJECT TITLE:
Emergency Responder Education / Training Programs

PROJECT TRACKING ID:
T0105

STATE FISCAL YEAR(S):
2000

SPONSOR:
TIME Enhanced Freeway Patrol Task Force (EFPTF)

PROJECT PARTICIPANTS OR ORIGIN:
TIME Incident Management Outreach Committee, WI State Patrol, Emergency Government

PROJECT DESCRIPTION:
• Contract for consultant services to support TIME incident response training and awareness activities
• Develop and produce training materials and conduct training specifically for traffic incident responders and managers in transportation, law enforcement, fire departments, and emergency medical service providers
• Some of the responder training elements to include:
  - Education/Outreach on Incident Clearance Legislation
    Educate Responders (i.e. EMS, towers, freeway patrols, etc.) on the use of Incident Clearance Legislation by providing information in newsletters and speaking at association meetings.
  - Education/Outreach on Crash Investigation Sites
    Educate Responders (i.e. EMS, towers, freeway patrols, etc.) on the use of Crash Investigation Sites by providing information in newsletters and speaking at association meetings.
  - Emergency Respondent Safety and Incident Management Procedures Implementation Program and Training
    Establishment of an on-going program to develop and enhance incident management safety procedures, procedures/protocols for “worst case” incident scenarios, examples to build on, and an assessment of products used by other agencies nationwide.
  - Provide Specialized Automobile Emergency Response (Extrication) Training
    A dedicated countywide unit that specializes in auto incidents and extrication.
  - Incorporate Traffic Incident Management into Required (Annual) Law Enforcement Training
    Law enforcement agencies require yearly certification training. Traffic incident management could be incorporated into the curriculum at MATC, UWM, etc.
  - Traffic Incident Management Demonstrations/Training Exercises
    Traffic Incident Management Demonstrations/Training Exercises are on-going joint agency exercises that focus on the implementation between agencies.

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project.
CONSULTANT SERVICES:
This project will consist of consultant services.

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation - 9/99
Consultant selection and scoping - 1/00
Execute consultant contract - 2/00
Issue notice to proceed - 2/00

PROJECT COSTS:
Program Administration - SFY00 - $500,000

EVALUATION PROVISIONS:
This project will incorporate annual or bi-annual training evaluation and market assessment.
PROJECT TITLE:
Public Education / Outreach Programs

PROJECT TRACKING ID:
T0104

STATE FISCAL YEAR(S):

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Contract for consultant services to support TIME training and education activities
- Train traffic incident responders and managers in transportation and law enforcement
- Educate traffic incident professionals, and vehicle operators about traffic incidents
- Deploy the TIME Communications Plan
- Coordinate TIME education & awareness activities with MONITOR & GCM Communications Plans
- Public education/outreach programs include but are not limited to the various elements of ITS and traffic incident management listed below. Methods of education/outreach: inclusion in driver education courses and manuals, insurance and AAA newsletters, association meetings, billboards, media, distribution of information to major employers, present information on state maps, and consistent procedures.
  - Traffic Incident Management Awareness
  - Incident Clearance Legislation
  - Crash Investigation Sites
  - Enhanced Reference Signs
  - Effects of “Rubbernecking”
  - Secondary Incidents
  - Reporting Incidents
  - Dangers of Cell Phone Usage While Driving
  - Awareness of Internet Based Document Repository

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation - 2/01
Consultant selection and scoping - 5/01
Execute consultant contract - 7/01
Issue notice to proceed - 7/01
PROJECT COSTS:
Program Administration - SFY01 - $200,000
Program Administration - SFY02 - $200,000
Program Administration - SFY03 - $200,000
Program Administration - SFY04 - $200,000
Program Administration - SFY05 - $200,000
Program Administration - SFY06 - $200,000

EVALUATION PROVISIONS:
This project will incorporate annual or bi-annual training evaluation and market assessment
PROJECT TITLE:
Commercial Driver Education / Outreach Programs

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Commercial Driver Education / Outreach Programs may include education and training of basic ITS elements and procedures for consistent reporting of freeway incidents. The main purpose of the training and procedures is intended to save response time by eliminating confusion related to the inaccurate crash reporting.

a. Include Enhanced Reference Sign Education in Commercial Driver Licensing to promote usage of reference signs by commercial drivers to communicate specific locations on the freeways to dispatchers.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx - $30,000
Annual Program Administration - $3,000

EVALUATION PROVISIONS:
(to be determined)
## ORDER OF MAGNITUDE COST ESTIMATE
### BACK-UP / COMPUTATIONS

**PROJECT TITLE:**  
O6.(a) Commercial Driver Education / Outreach Programs

**PROGRAM ADMINISTRATION:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop Procedures and Education/Training</td>
<td>$30,000</td>
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**ANNUAL PROGRAM ADMINISTRATION:**

<table>
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<tr>
<th>Description</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Annual Program Administration</td>
<td>$3,000</td>
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<tr>
<td>(10% of Program Administration Cost)</td>
<td>$3,000</td>
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Last Revision 10/00
PROJECT TITLE:
Tourist Education / Outreach Programs

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Tourist Education/Outreach Programs include the development of a coordination program to improve traffic management for planned special events. Project elements may include quarterly task force meetings, the development of outreach materials such as brochures, and the placement of kiosks at rest areas, park and ride lots, shopping malls, airports, and special event venues. One method to accomplish this is to Work with the Greater Milwaukee Visitors and Convention Bureau, Bureau of Tourism, Event Operators, and Chambers of Commerce to Manage/Improve Tourism Traffic Impacts.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Program Administration - SFYxx - $383,000
Annual Program Administration - $40,500

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
O7.(a) Tourist Education / Outreach Programs

PROGRAM ADMINISTRATION:

<table>
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<th>Item</th>
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<td>Needs Assessment Study</td>
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<td>Meetings</td>
<td>$17,000</td>
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<tr>
<td>Outreach Materials</td>
<td>$15,000</td>
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<tr>
<td>Kiosks (3)</td>
<td>$300,000</td>
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<tr>
<td>Database Development</td>
<td>$17,000</td>
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Total: $383,000

ANNUAL PROGRAM ADMINISTRATION:

<table>
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<tr>
<th>Item</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Meetings</td>
<td>$17,000</td>
</tr>
<tr>
<td>Update Database</td>
<td>$8,500</td>
</tr>
<tr>
<td>Outreach Materials</td>
<td>$15,000</td>
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</table>

Total: $40,500
PROJECT TITLE:
Enhanced Media Information / Dissemination

PROJECT TRACKING ID:

STATE FISCAL YEAR(S):
(to be determined)

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
Enhanced Media Information/Dissemination would include improvements to how travel information is currently communicated to motorists. Travel information can be transmitted through various media forms including AM/FM radio stations, Traveler Advisory Telephone, Cable TV, and the Internet. This project would include examination of information dissemination technologies, acquisition of selected technology upgrades, and implementation of additional procedures/protocols to facilitate information dissemination via the media.

EARMARKING CONSIDERATION:
(to be determined)

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
(to be determined)

PROJECT COSTS:
Implementation - SFYxx - $200,000
Annual Operating and Maintenance - $15,000

EVALUATION PROVISIONS:
(to be determined)
ORDER OF MAGNITUDE COST ESTIMATE
BACK-UP / COMPUTATIONS

PROJECT TITLE:
O8. Enhanced Media Information / Dissemination

IMPLEMENTATION:

Needs and Opportunities Study = 3 man months = $ 51,000

Equipment = $ 149,000

= $ 200,000

ANNUAL OPERATING AND MAINTENANCE:

Annual Operating and Maintenance = $ 15,000

(10% of Equipment Cost) $ 15,000

Last Revision 10/00
PROJECT TITLE:
Traffic Media Support

PROJECT TRACKING ID:
T0102

STATE FISCAL YEAR (S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
District Two Freeway Operations Policy Group
Traffic Incident Management Enhancement (TIME) Program
Milwaukee Public Schools

PROJECT DESCRIPTION:
- Contract with Milwaukee Public Schools for a traffic technology and media student mentor
- Mentor and School-to-Work students provide traffic media liaison support to MONITOR TOC
- Mentor develops public-private partnerships with media to recoup costs
- Mentor develops new traffic media services of MONITOR to support traveler info services

EARMARKING CONSIDERATION:
This project will be funded through the MONITOR TEA21 Earmark

CONSULTANT SERVICES:
This project will not involve consultant services

PROJECT SCHEDULE OR MILESTONES:
MPS Board approval of draft contract - 12/98
Execute MPS contract - 2/00
Select mentor - 5/00
Begin student involvement - 9/00
Complete funded portion of project - 12/02

PROJECT COSTS:
Program Administration - SFY01 - $700,000

EVALUATION PROVISIONS:
This project will be evaluated through review and technical support of MONITOR control room
PROJECT TITLE:
Stage 6A Construction (1000-95-99)

PROJECT TRACKING ID:
M0101

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:

PROJECT DESCRIPTION:
• Complete construction of I-43 CCTV as described in the DSR
• Complete construction of “gaps” in system detection on I-94, I-894, and spurs
• Begin accommodation of MONITOR surveillance of Milwaukee-Madison, and Milwaukee-Green Bay freeways
• Complete modification and upgrades of outdate CCTV cameras and system equipment

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Begin Construction – 9/00
End Construction – 9/01

PROJECT COSTS:
SFY01 - $3,375,000
Annual Operating and Maintenance - $90,000

EVALUATION PROVISIONS:
This project will be evaluated through the MONITOR System Evaluation and Technology Development Program.
PROJECT TITLE:
Communications Infrastructure Construction

PROJECT TRACKING ID:
M0102

STATE FISCAL YEAR(S):
2001

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
MONITOR ("2000") Design Study Report (DSR) - 4/96, 12/00 (pending) Versions

PROJECT DESCRIPTION:
• Expand and adapt MONITOR fiber optic communications network to link public safety and emergency service communications centers
• Upgrade resulting TESCNET fiber optic infrastructure to full network capabilities
• Incorporate network management features to minimize communications network maintenance costs
• Redesign and update fixed and aerial traffic video surveillance cameras and controllers

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services and could accommodate subsystem design-build contracting.

PROJECT SCHEDULE OR MILESTONES:
Begin Initial Design – 10/00
Contract for Deployment - 5/01
Complete Construction and System Integration – 6/02

PROJECT COSTS:
SFY01 - $5,000,000
Annual Operating and Maintenance - $120,000

EVALUATION PROVISIONS:
This project will be evaluated through the MONITOR System Evaluation and Technology Development Program.
PROJECT TITLE:
2000 Stage 6B Design and Construction

PROJECT TRACKING ID:
M0103 and M0201

STATE FISCAL YEAR(S):
2001, 2002

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:

PROJECT DESCRIPTION:
• Complete PS&E for Stage 6B of MONITOR consistent with updated DSR
• Complete construction of MONITOR Stage 6B likely to include
  - Freeway traffic data monitoring and video surveillance subsystems
  - Ramp meters and traffic gates
  - Freeway variable message signs
• Extend MONITOR coverage to encompass STH794, I-94 in Western Waukesha County
• Increase extent of freeway surveillance in Racine, Kenosha, Washington, and Ozaukee Counties
• Accommodate MONITOR surveillance of Milwaukee-Madison, and Milwaukee-Green Bay freeways
• Complete system integration and testing of MONITOR Stage 6B

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will involve design and system integration through consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation, scoping, and contract execution - 11/99
Complete Stage 6B PS&E - 8/01
Complete Stage 6B construction and system integration - 10/02

PROJECT COSTS:
Design - SFY01 - $1,000,000
Implementation - SFY02 - $7,000,000
Annual Operating and Maintenance - $40,000

EVALUATION PROVISIONS:
This project will be evaluated through the MONITOR System Evaluation and Technology Development Program.
DRAFT

ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
MONITOR 2010 Preliminary Engineering

PROJECT TRACKING ID:
M0301

STATE FISCAL YEAR(S):
2003

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
MONITOR Design Study Report (DSR) - 4/96, 3/99 (pending) Versions

PROJECT DESCRIPTION:
• Complete a comprehensive review and update of initial MONITOR DSR (i.e. MONITOR 2000 DSR)
• Complete technological and operational evaluation of existing MONITOR equipment and subsystems
• Facilitate review of other available freeway traffic management equipment and strategies
• Develop and apply criteria for geographic extent and location of specific devices and subsystems
• Define geographic limits of MONITOR 2010 within Wisconsin and the GCM Corridor
• Complete system architecture consistent with the ITS National Architecture and available standards
• Document MONITOR 2010 preliminary engineering in DSR

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will involve consultant services

PROJECT SCHEDULE OR MILESTONES:
Issue a Request for Information (RFI) on second-generation FTMS deployment - 4/03
Consultant solicitation - 6/03
Consultant selection and contract execution - 9/03
Complete technological and operational review of existing system (MONITOR 2000) - 4/04
Complete MONITOR 2010 DSR - 3/05

PROJECT COSTS:
SFY03 - $3,000,000

EVALUATION PROVISIONS:
This project incorporates technological and operational evaluation components for an existing system.

Last Revision 10/00
PROJECT TITLE: Computer and Control System Upgrade – Phase 1 and Phase 2

PROJECT TRACKING ID: M0010, M0202

STATE FISCAL YEAR(S): 2002

SPONSOR: DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
- Communications and Data Systems Infrastructure (CDSI) Strategic Plan (Pending)
- GCM Program Plan and Gateway Design Documents

PROJECT DESCRIPTION:
- Complete design and development, integration, and testing of second-generation MONITOR software
- Provide for two-phase implementation of MONITOR Software Upgrade -
  - Phase 1 - Software Upgrade Design (Functional Specifications)
  - Phase 2 - Software Upgrade Development (Software Coding and Integration)
- Support the MONITOR Software Upgrade to include
  - Reconfiguration of MONITOR database and communications server components
  - Modernization of MONITOR surveillance video management
  - Adaptation of real-time geographic information systems technology
  - Seamless incorporation of Integrated Corridor surveillance and traffic control
  - Data exchange with public safety and emergency service computer aided dispatch systems
  - Parallel development of MONITOR and CDSI regional traveler information “Hub” subsystems
  - Operations and traveler information exchange with Milwaukee County transit and paratransit services

EARMARKING CONSIDERATION:
Phase 1 of this project is partially funded through the MONITOR TEA21 Federal Earmark

CONSULTANT SERVICES:
This project will involve software design and development through consultant and other contract services

PROJECT SCHEDULE OR MILESTONES:
- Software design (Phase 1) consultant solicitation, scoping, and contract execution - 5/00
- Software development (Phase 2) contractor solicitation, scoping, and contract execution - 11/00
- Complete acceptance testing of complete Phases 1 and 2 of MONITOR Software Upgrade - 12/02
PROJECT COSTS:
SFY00 - $750,000
SFY02 - $5,000,000

EVALUATION PROVISIONS:
This project will be evaluated through the MONITOR System Evaluation and Technology Development Program.
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
System Software Update

PROJECT TRACKING ID:
M0104

STATE FISCAL YEAR(S):
2001, 2003, 2005

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Communications and Data Systems Infrastructure (CDSI) Strategic Plan (Pending)
GCM Program Plan and Gateway Design Documents

PROJECT DESCRIPTION:
• Complete routine maintenance and ongoing functional evaluation of MONITOR software
• Provide diagnostics and trouble-shooting to enable 7-day, 24-hour software operation
• Ensure operation of MONITOR software through upgrades of operating systems
• Continuously review compatibility of MONITOR software with constituent “off the shelf” software
• Update MONITOR databases, maps, configuration, and communication linkages
• Enable operator and software support feedback into MONITOR field and software design processes

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
Complete review of existing MONITOR maintenance contracts and warranties - 2/99
SFY99 software maintenance consultant solicitation, scoping, and contract execution - 5/00
SFY01 software maintenance consultant solicitation, scoping, and contract execution - 10/00

PROJECT COSTS:
SFY01 - $500,000
SFY03 - $500,000
SFY05 - $700,000

EVALUATION PROVISIONS:
This project will be evaluated through the MONITOR System Evaluation and Technology Development Program.
PROJECT TITLE:
Freeway Corridor Advanced Traffic Management Systems (ATMS) Maintenance and Integration

PROJECT TRACKING ID:
M0105

STATE FISCAL YEAR(S):

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Integrated Corridor Operations Project (ICOP) Strategic Plan (Pending)
GCM Program Plan and Gateway Design Documents

PROJECT DESCRIPTION:
• Complete routine maintenance and ongoing operational evaluation of MONITOR field equipment
• Complete routine maintenance of arterial traffic data and video surveillance subsystems
• Maintain and repair arterial dynamic signs and variable message signs (VMS)
• Calibrate and fine-tune traffic detectors, device controllers
• Provide diagnostics and trouble-shooting to enable 7-day, 24-hour Integrated Corridor operation
• Enable device operator and field support feedback into MONITOR field and software design processes

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will consist of consultant services and other contractor services

PROJECT SCHEDULE OR MILESTONES:
Complete review of existing MONITOR and related maintenance contracts and warranties - 2/99
1999 freeway corridor ATMS maintenance consultant solicitation, and contract execution - 5/99
2000 freeway corridor ATMS maintenance consultant solicitation, and contract execution - 10/99
2001 freeway corridor ATMS maintenance consultant solicitation, and contract execution - 10/00

PROJECT COSTS:
SFY99 - $500,000
SFY00 - $1,000,000
SFY01 - $1,000,000
SFY02 - $1,300,000
SFY03 - $1,300,000
SFY04 - $1,500,000
SFY05 - $1,500,000
SFY06 - $1,500,000

Funding Type____________
Date Completed__________
Evaluated____ yes ____ no

Last Revision 10/00
EVALUATION PROVISIONS:
This project will be evaluated through the MONITOR System Evaluation and Technology Development Program.
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Systems Engineering and Configuration Management

PROJECT TRACKING ID:
M0203

STATE FISCAL YEAR(S):  
2002

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
MONITOR ("2000") Design Study Report (DSR) - 4/96, 12/00 (pending) Versions
TIME Blueprint
Southeastern Wisconsin Regional ITS Architecture - 5/00 (pending)

PROJECT DESCRIPTION:
• Provide systems engineering services to support the ongoing operation and maintenance of the MONITOR Freeway Traffic Management System and related subsystems
• Monitor, revise, and update the SE Wisconsin Regional ITS Architecture
• Coordinate individual ITS project architectures
• Support WISDOT and USDOT review of regional, corridor, and project architectures from SE Wisconsin

EARMARKING CONSIDERATION:
This project may be funded through a federal earmark.

CONSULTANT SERVICES:
This project will involve system and program support services through consultant services.

PROJECT SCHEDULE OR MILESTONES:
Begin Consultant Contract - 07/01
Complete Consultant Contract – 12/03

PROJECT COSTS:
SFY02 - $400,000
SFY04 - $400,000
SFY06 - $400,000

EVALUATION PROVISIONS:
This project provides basic system support functions to the MONITOR Freeway Traffic Management System and related subsystems. These efforts do not require an evaluation, but will be implicitly evaluated through the ongoing evaluation of the MONITOR system.
PROJECT TITLE:
System Evaluation and Technology Development

PROJECT TRACKING ID:
M9908

STATE FISCAL YEAR(S):

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
- Contract for consultant services to support continuing evaluation of the MONITOR Program
- Quantitatively and qualitatively evaluate specific MONITOR subsystems and devices
- Evaluate the ongoing effectiveness of the administration of the overall MONITOR Program
- Recommend expansion, modification, or abandonment of specific MONITOR functions and services
- Identify needs for technological developments in support of the MONITOR System
- Facilitate partnerships with Wisconsin industry to develop new MONITOR equipment and components
- Determine the cost-effectiveness of the overall MONITOR System, as well as specific subsystems
- Determine compliance of MONITOR subsystems with ITS National Architecture and standards

EARMARKING CONSIDERATION:
This project is partially funded through the MONITOR TEA21 Earmark ($400,000 in SFY99/FFY98)

CONSULTANT SERVICES:
This project will consist of consultant services
Alternately, this project may expand existing relationships with the academic community

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation - 12/99
Consultant selection and scoping - 2/99
Execute consultant contract - 3/99
Issue notice to proceed - 3/99

Last Revision 10/00
PROJECT COSTS:
SFY99 - $400,000 (MONITOR TEA21 Earmark)
SFY01 - $600,000
SFY03 - $600,000
SFY05 - $600,000
Propose full encumbrance in SFY99

EVALUATION PROVISIONS:
This project incorporates an evaluation component
PROJECT TITLE:
Education, Training, and Awareness

PROJECT TRACKING ID:
M0204

STATE FISCAL YEAR(S):

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Support for MONITOR staff training and education activities
• Complete training of local public safety agencies to utilize MONITOR system and field devices
• Train traffic managers and drivers to use MONITOR capabilities
• Promote freeway traffic safety through driver awareness campaigns
• Deploy the MONITOR Communications Plan (pending)
• Coordinate MONITOR education and awareness activities with TIME and GCM Communications Plans

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation - 8/99
Consultant selection and scoping - 10/99
Execute consultant contract - 12/99
Issue notice to proceed - 12/99

PROJECT COSTS:
SFY02 - $400,000
SFY04 - $400,000
SFY06 - $400,000
Propose full encumbrance in SFY00

EVALUATION PROVISIONS:
This project will incorporate annual or bi-annual training evaluation and market assessment.
ITS PROGRAM - PROJECT SUBMITTAL FORM
STATE FISCAL YEARS 2001-2003
DISTRICT TWO - TRAFFIC OPERATIONS CENTER

PROJECT TITLE:
Control Room Technical Support and Training

PROJECT TRACKING ID:
M9909

STATE FISCAL YEAR(S):

SPONSOR:
DTD, District Two, Freeway Operations Unit

PROJECT PARTICIPANTS OR ORIGIN:
Traffic Incident Management Enhancement (TIME) Program Blueprint

PROJECT DESCRIPTION:
• Complete operational review of MONITOR control room practices and policies
• Evaluate staff qualifications and capabilities and update control room staffing plan
• Develop complete and concise MONITOR operations policies and guidelines
• Produce MONITOR control room manual, shift check-lists, and graphics for display
• Provide supplemental engineering and operator staffing support for control room functions
• Conduct weekly audits of MONITOR control room performance and MONITOR device utilization
• Complete ongoing review and refinement of ramp metering subsystems
• Implement, calibrate, and monitor segmental ramp metering algorithms

EARMARKING CONSIDERATION:
There is no special funding or earmarking available for this project

CONSULTANT SERVICES:
This project will consist of consultant services

PROJECT SCHEDULE OR MILESTONES:
Consultant solicitation - 12/99
Consultant selection and scoping - 1/99
Execute consultant contract - 3/99
Issue notice to proceed - 3/99

PROJECT COSTS:
SFY99 - $400,000
SFY01 - $800,000
SFY03 - $800,000
SFY05 - $800,000

Last Revision 10/00
EVALUATION PROVISIONS:
This project will be evaluated through the MONITOR System Evaluation and Technology Development Program.