

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION
PLANNING & RESEARCH DIVISION

FY 2004

State Planning and Research (SPR) Program

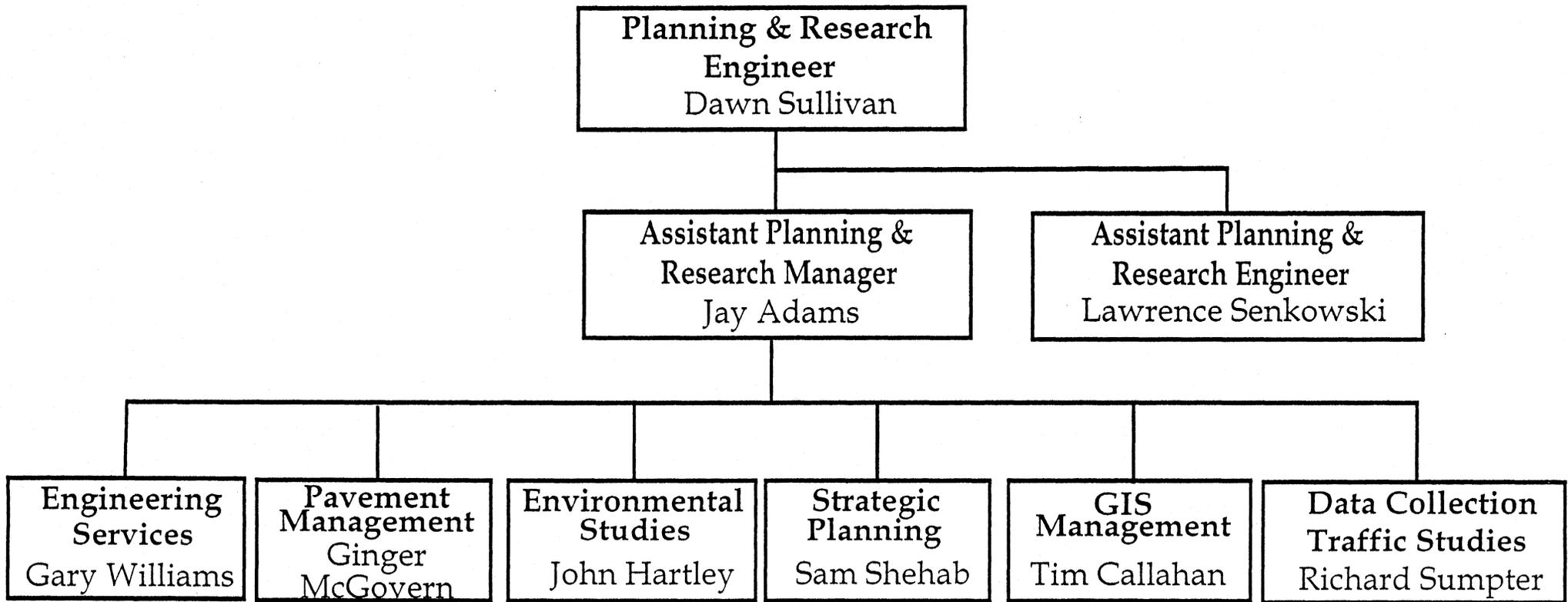
Part 1 - Planning

Part 2 - Research

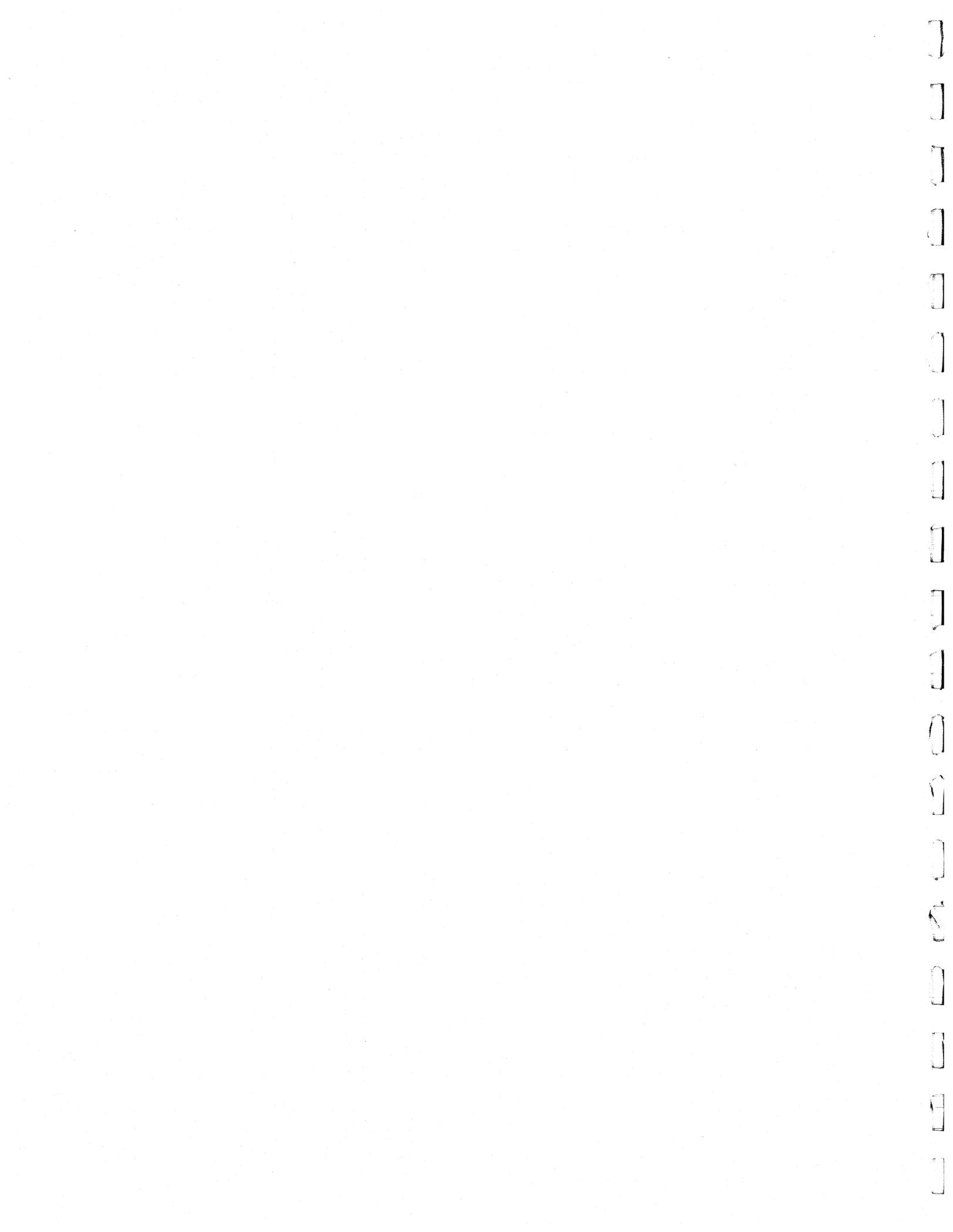
In Cooperation with the
United States Department of Transportation
Federal Highway Administration

October 1, 2003

Planning & Research Division



OCTOBER 1, 2003



DEPARTMENT OF TRANSPORTATION
Financial Summary Sheet

Work Program Number SPRY 0010(27) PL
Fiscal Year 2004

Program Period October 1, 2003 through September 30, 2004

A. Total Estimated Costs

SPR-Part 1 Planning	\$8,586,900.00
Metropolitan Planning (PL)	<u>1,997,780.00</u>

TOTAL ESTIMATED COSTS \$10,584,680.00

B. Available Federal Funds

<u>Source</u>	<u>SPR Unobligated Balance</u>	<u>PL Unobligated Balance</u>
TOTAL AVAILABLE FEDERAL FUNDS	\$10,834,170.00	\$1,997,780.00

C. Proposed Financing

<u>Type</u>	<u>Federal</u>	<u>Ratio</u>	<u>State</u>	<u>Local</u>	<u>Total</u>
SPR	\$8,586,900.00	80%	\$0.00	\$0.00	\$8,586,900.00
PL	\$1,997,780.00	80%	\$0.00	\$461,946.00	<u>\$2,459,726.00</u>
TOTAL PROPOSED FINANCING					<u><u>\$11,046,626.00</u></u>

Work Program Number SPRY 0010(35) RS
Fiscal Year 2004

A. Total Estimated Costs

SPR-Part 2 Research	\$3,613,953.00
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B. Available Federal Funds

<u>Source</u>	<u>SPR Unobligated Balance</u>
TOTAL AVAILABLE FEDERAL FUNDS	\$1,366,683.00

C. Proposed Financing

<u>Type</u>	<u>Federal</u>	<u>Ratio</u>	<u>State</u>	<u>Local</u>	<u>Total</u>
SPR	\$3,613,953.00	80%	\$0.00	\$0.00	\$3,613,953.00
TOTAL PROPOSED FINANCING					<u><u>\$3,613,953.00</u></u>

TOTAL PART 1 AND PART 2 \$12,200,853.00

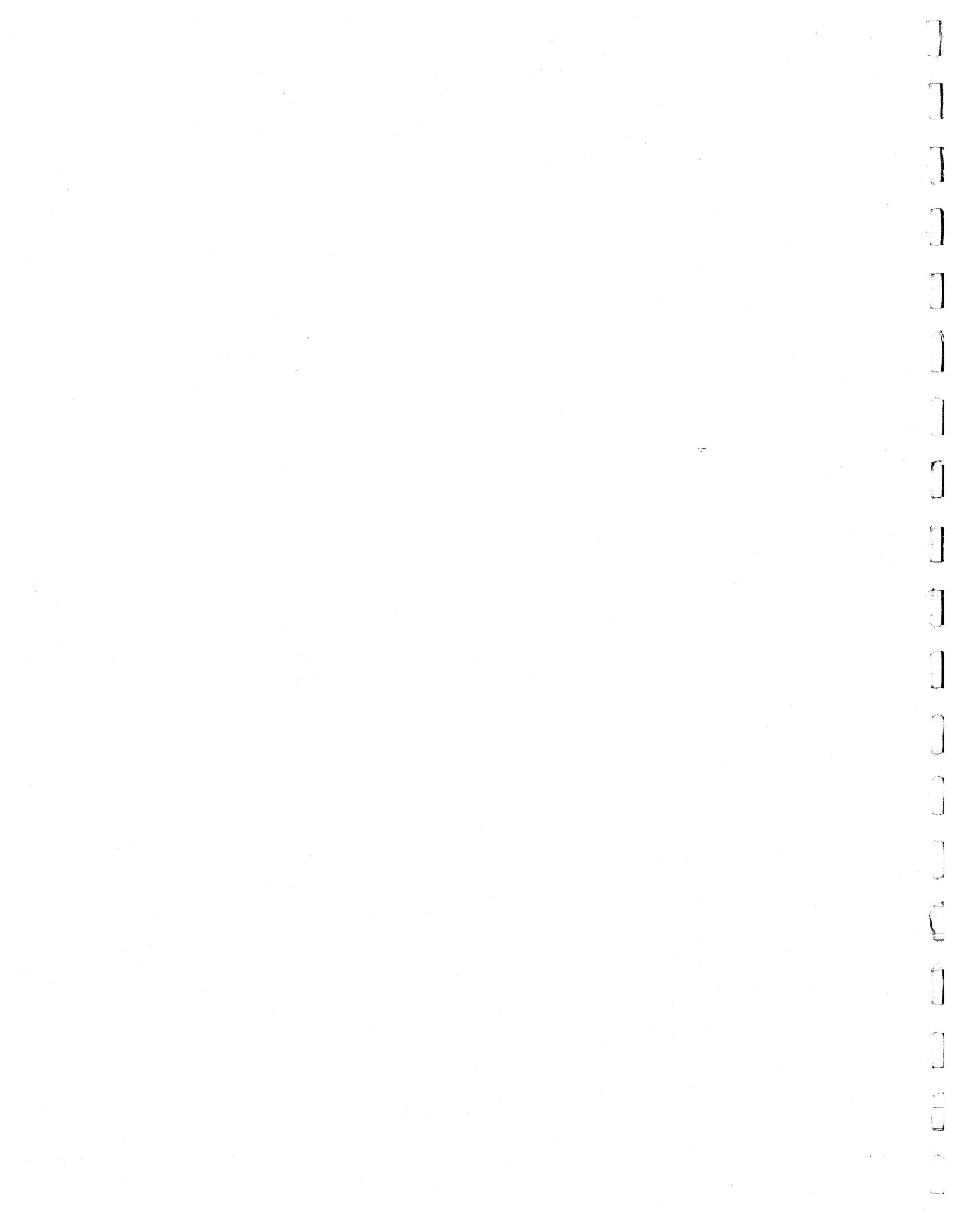


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**FEDERAL FISCAL YEAR 2004
OKLAHOMA PROJECT SPRY - 10(27) PL
Part 1**

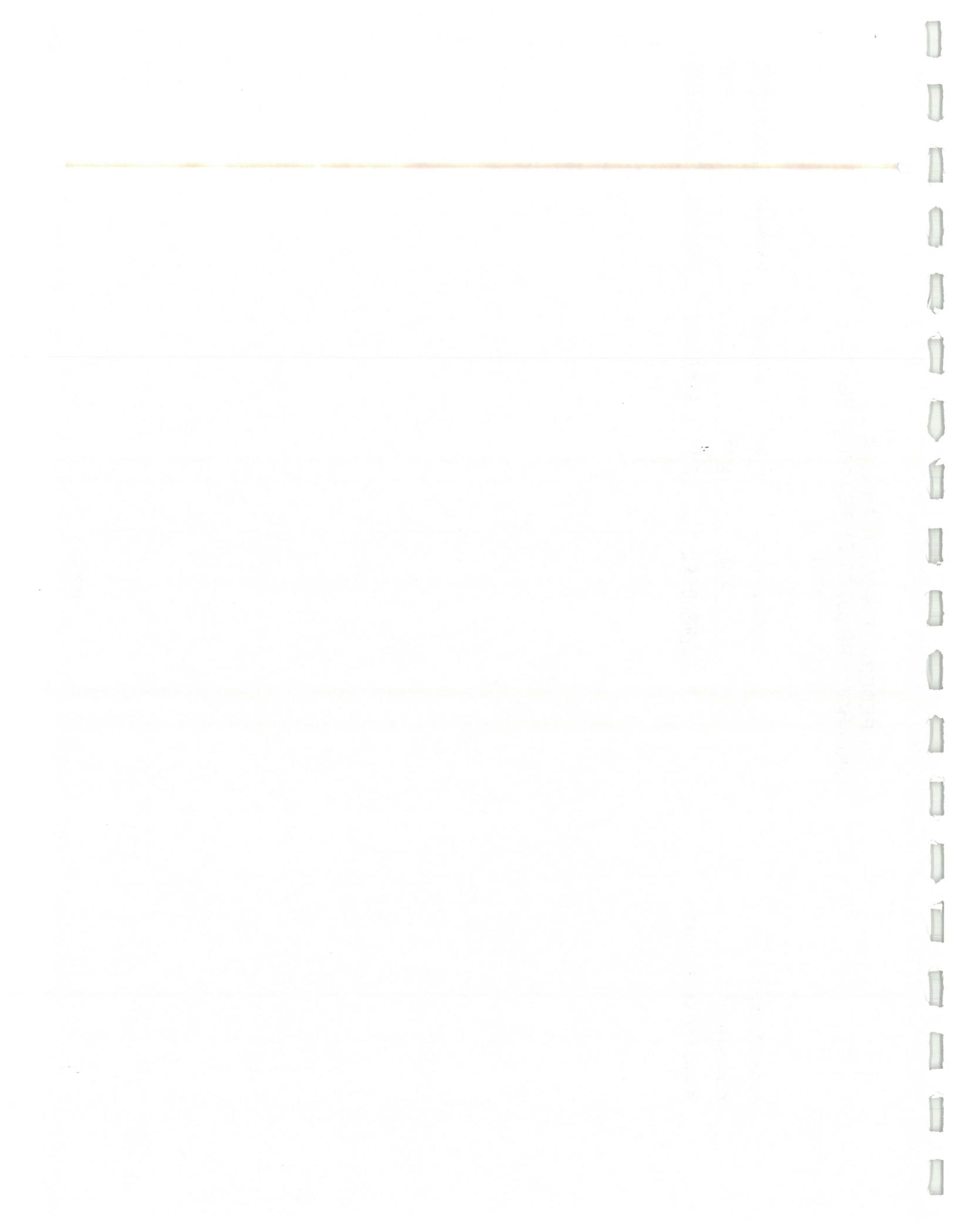
	<u>PROGRAM</u>	<u>SPR</u>	<u>STATE</u>	<u>PL</u>	<u>LOCAL</u>	<u>TOTAL</u>
ROAD INVENTORY						
1101	Continuing Inventory Data Studies	\$519,000.00	\$0.00			\$519,000.00
1102	Highway Performance Monitoring System	150,000.00	\$0.00			150,000.00
1103	Geographical Information System for Transportation	226,200.00	\$0.00			226,200.00
	Total Road Inventory	\$895,200.00	\$0.00			\$895,200.00
MAPPING						
1201	County, General Highway Transportation, Incorporated City and other Planning Maps	\$177,000.00	\$0.00			177,000.00
	Total Mapping	\$177,000.00	\$0.00			\$177,000.00
TRAFFIC						
1301	Coverage Count Program	483,000.00	0.00			483,000.00
1302	Permanent Traffic Count Program	217,000.00	0.00			217,000.00
1304	Purchase of Traffic Counting Equipment	210,000.00	0.00			210,000.00
1305	Vehicle Classification Counting Program	303,000.00	0.00			303,000.00
1306	Truck Weight Study	665,000.00	0.00			665,000.00
1308	Traffic Monitoring System	132,000.00	0.00			132,000.00
1309	Traffic Analysis and Projections	132,400.00	0.00			132,400.00
1310	Skid Studies Program	370,000.00	0.00			370,000.00
	Total Traffic	\$2,512,400.00	\$0.00			\$2,512,400.00
1402	Design and Survey Standards	\$400,000.00	\$0.00			400,000.00
1403	Design Manual	\$386,000.00	\$0.00			386,000.00
	Total Standards	\$786,000.00	\$0.00			\$786,000.00
ECONOMIC AND FISCAL						
1510	Justification Studies	12,000.00	0.00			12,000.00
1511	Scoping	250,000.00	0.00			250,000.00
	Total Economic and Fiscal	\$262,000.00	\$0.00			\$262,000.00

**FEDERAL FISCAL YEAR 2004
OKLAHOMA PROJECT SPRY - 10(27) PL
Part 1**

<u>PROGRAM</u>		<u>SPR</u>	<u>STATE</u>	<u>PL</u>	<u>LOCAL</u>	<u>TOTAL</u>
SYSTEMS AND PROGRAMMING						
1601	Federal Aid Systems Coordination	180,800.00	0.00			180,800.00
1603	Highway Needs Study	320,000.00	0.00			320,000.00
1604	Pavement Management	1,250,000.00	0.00			1,250,000.00
Total Systems and Programming		\$1,750,800.00	\$0.00			\$1,750,800.00
URBAN TRANSPORTATION						
1700	General Urban Planning Activities	50,000.00	0.00	0.00	0.00	50,000.00
1701	OCARTS	30,000.00	0.00	847,560.00	211,890.00	1,089,450.00
1702	Tulsa MATS	35,000.00	0.00	839,870.00	209,968.00	1,084,838.00
1703	Lawton MPO	15,000.00	0.00	146,524.00	36,631.00	198,155.00
1709	Fort Smith Area Study	3,500.00	0.00	13,826.00	3,457.00	20,783.00
1719	STIP	65,000.00	0.00	0.00	0.00	65,000.00
Total Urban Transportation		\$198,500.00	\$0.00	\$1,847,780.00	\$461,946.00	\$2,508,226.00
LONG RANGE PLANNING/ENVIRONMENTAL STUDIES						
1901	NPDES	400,000.00	0.00			400,000.00
1902	Statewide Long Range Transportation Planning Activities	200,000.00	0.00			\$200,000.00
1903	Intelligent Transportation Systems Planning (ITS)	80,000.00	0.00			80,000.00
1904	Air Quality Transportation Planning	25,000.00	0.00	150,000.00		175,000.00
1979	Environmental Studies	1,300,000.00	0.00			\$1,300,000.00
Total Long Range Planning/Environmental Studies		\$2,005,000.00	\$0.00	\$150,000.00	\$0.00	\$2,155,000.00

FEDERAL FISCAL YEAR 2004
OKLAHOMA PROJECT SPRY - 10(27) PL
Part 1

PROJECT TOTALS	\$8,586,900.00	\$0.00	\$1,997,780.00	\$461,946.00	<u>\$11,046,626.00</u>
CONTINGENCY	<u>\$0.00</u>	<u>\$0.00</u>			<u>\$0.00</u>
GRAND TOTALS SPR -10(26)	<u>\$8,586,900.00</u>	<u>\$0.00</u>	<u>\$1,997,780.00</u>	<u>\$461,946.00</u>	<u>\$11,046,626.00</u>



PURPOSE AND SCOPE: To collect, record, and compile data on the physical characteristics of all public roads and streets implementing established road inventory procedures. Maintain current Electronic Data Processing (EDP) files of inventory data and update the Department's Central Data file. Write EDP program definitions necessary to extract needed summary data from the files. Produce and publish various mileage summary tables for the state, federal and public needs. Maintain necessary information for the National Network of Defense Routes. Maintain and develop the Control Section and other unique identification systems for all public roads. Established AVMT to be used to calculate Annual Accident and Fatality Rates.

ACCOMPLISHMENTS DURING FY 2003: The County Road inventory procedures were continued with seven county inventories completed (Coal, Craig, Lincoln, Mayes, Pawnee, Rogers and Wagoner) and two (Okfuskee and Stephens) in progress. Eleven counties were reassessed and coded (Adair, Alfalfa, Choctaw, Coal, Garfield, Greer, Lincoln, Murray, Nowata, Pawnee and Washington) and two (Creek and Pittsburg) in progress. All County Action Reports were verified and processed accordingly. The Department's Highway and Open to Traffic database were revised and processed through Agenda Items, Project Reports, Needs Study revisions, and special requests. The inventory for Rural Functional Classified (RFC) Roadway was continued with ten counties completed; (Cherokee, Craig, Delaware, Leflore, McClain, Mayes, Okmulgee, Ottawa, Pawnee and Rogers). The following annual publications and reports were completed; the biannual 2003 Statewide Milage Table Book, 2002 Oklahoma Statewide Statistics Book, 2003 Certification of County Road Mileage and 2003 HPMS Mileage and Travel Summary Tables.

PROPOSED ACTIVITIES FOR FY 2004 Continue coding and updating the Department's Central Database files. Implement GPS technology into our field inventory data collection. Improve procedures for the rural county inventory methods for both the aerial and ground inventory operations. Seven counties are scheduled to be inventoried (Cleveland, Comanche, Cotton, Delaware, Okmulgee, Pushmataha and Sequoyah). Six counties are scheduled to be reassessed and coded (Cleveland, Comanche, Cotton, Craig, Delaware, Mayes, Okmulgee, Pushmataha, Sequoyah, Rogers and Wagoner). Update Urban Functional Classified (UFC) Roadways due to the 2000 Census Boundary changes. Compile and publish various state and federal reports including the biannual 2004-2005 Control Section Map Book. Continue collecting HPMS data items. Complete the 2003 Oklahoma Statewide Statistics Book, 2004 Certification of County Road Mileage and 2004 HPMS Mileage and Travel Summary Tables. Keep abreast of the latest technological advances through attendance of seminars, conferences and workshops.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 522,000 (SPR) -0- (STATE)
Estimated Cost for FY 2003	\$ 516,000 (SPR) -0- (STATE)
Estimated Cost for FY 2004	\$ 519,000 (SPR) -0- (STATE)

PURPOSE AND SCOPE: To collect, process and compile data and information as needed to prepare and submit an accurate and timely HPMS submission to the Federal Highway Administration (FHWA) according to the reporting requirements established in the HPMS Field Manual and by the utilization of the FHWA HPMS software.

ACCOMPLISHMENTS DURING 2003: The HPMS submittal process has been completely re-engineered. The HPMS submittal process now uses five custom Oracle packages (HPMS_REPORT, HPMS_PREPARE, HPMS_VALIDATE, HPMS_POST_LOAD & HPMS_POST_PROCESS). The new Oracle packages were developed using Oracle PL/SQL and the data is stored and/or manipulated in a new object based Oracle database schema. The HPMS submittal process also uses a newly designed and developed web based graphical user interface. The user interface is known as the HPMS Console and is very effective in managing the entire life cycle of the HPMS submittal process. The HPMS Console provides an interface to all of the custom Oracle PL/SQL stored procedures and functions used by the HPMS process. The HPMS Console is intranet based and was designed to support the sharing of tasks with the appropriate HPMS data owners and personnel responsible for each of the six different phases of HPMS submittal development. The 2002 HPMS data was made available to anyone having access to the ODOT computer network through the GRIP browser application. The most recent HPMS data was published through the GRIP browser application under the HPMS business layer and is now available to the local FHWA division office. All data submitted to the FHWA in the 2002 HPMS submittal was formatted as defined by the HPMS Field Manual. The 2002 submittal was created using the FHWA supported HPMS software version 5.5 although all data domain and cross-check validation was done in Oracle before inserting the data into Microsoft Access through the HPMS software. HPMS data quality was improved by using the most recent IRI data available from the Pavement Management data collection efforts

PROPOSED ACTIVITIES FOR 2004: HPMS data collection needs will be addressed by improving the coordination of all current and future data collection efforts within ODOT. Data collection needs will also be addressed by improved communication and data sharing between ODOT and other external entities such as city and county governments, metropolitan planning organizations and the Oklahoma Transportation Authority. Data collection needs will be addressed by using videolog obtained by the Pavement Management data collection contract. HPMS 2003 data will be made available to anyone having access to the ODOT computer network by publishing all HPMS 2003 universe and sample data through the Geographical Resource Intranet Portal (GRIP) web browser application. The GIS Management Branch of the Planning and Research Division will conduct HPMS computer based training as provided by the FHWA. Training will be conducted on how to use the HPMS Console to generate, validate and submit a HPMS submittal. Incorporate new logic in the HPMS_PREPARE package to properly populate the Truck Route Designation data in the 2003 HPMS submittal. The linear referencing system (LRS) component of HPMS will be greatly improved by providing the FHWA with GIS geometry data reflecting the most current road network in a standard ArcView shape file format. The HPMS 2003 submittal will be delivered to FHWA no later than June 15, 2004. ODOT will keep abreast of the latest technological advances through attendance of seminars, conferences and workshops.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 75,000 (SPR) - 0 - (STATE)
Estimated Cost for FY 2003	\$ 149,800 (SPR) - 0 - (STATE)
Estimated Cost for FY 2004	\$ 150,000 (SPR) - 0 - (STATE)

PURPOSE AND SCOPE: To design, develop and implement a Geographical Information System for Transportation (GIS-T). The system will produce quality GIS products and support the delivery of state-of-the art GIS services. The GIS-T will also provide enterprise-wide intranet access to thematic map displays, aerial photography, reports, analysis tools and attribute data for multiple business layers. Business data will include road inventory, needs study, programs and projects, crashes and traffic engineering related data, bridges, pavement management information, highway performance monitoring system (HPMS) and at-grade rail crossing information. The system will support map creation by multiple display areas to include counties, state senate districts, state house districts, US congress districts, ODOT commissioner districts and the entire state of Oklahoma. The GIS-T will provide decision support for ODOT and FHWA transportation planners, engineers and administrators.

ACCOMPLISHMENTS DURING FY 2003: The third year of the Geographical Resource Intranet Portal (GRIP) project was completed. ODOT provided two key personnel (project manager and GIS administrator) along with critical GIS products and services supporting the GRIP project. Some key accomplishments include the following:

- Created the HPMS console including tree menu and GUI.
- Developed a road inventory data entry and maintenance system
- Migrated the HPMS submittal process from visual basic to an Oracle HPMS package
- Implemented numerous enhancements/additions to the GRIP browser application (Version 3)
 - o Overview/Vicintiy Inset map
 - o Upgraded Bridge data from Pontis v3 to v4
 - o Upgraded Oracle database server from v 8.1.7 to v9.2.0
 - o Upgraded GeoMedia Web Map Enterprise to GeoMedia Web Map Professional
 - o Incorporated Structural Pavement History for Interstates.
 - o Revised the Projects and Programs business layer to reflect Construction Program and Workplan
 - o Data entry application now automatically maintains NLF_ID and SUBSECTION_ID values.
 - o Added mileage summary reports for highways only data
 - o Sufficiency and Deficiency attribute data listing revised to improve functionality.
 - o Enhanced longitude, latitude readout accuracy
 - o Improved performance for LRS readout function.

A major enhancement was made to the mileage tabulatory (OKMILE) software that is used by over 250 customers each year throughout Oklahoma. This software previously allowed users to select a 'from' city and a 'to' city. The official mileage was displayed between the cities and a map of the counties and cities was drawn. This year, the product was enhanced to map the roads in the area and, more importantly, highlight the route between the selected cities. Users can now visually see the route on which the mileage was calculated . In addition, we collected over 1,100 lane-miles of global positioning system (GPS) coordinate data was collected and incorporated into ODOT base map products. Over 60 map products were produced. 16 sufficiency study maps were completed for distribution to ODOT and FHWA engineers, 9 roadway surfacing condition map products. The statewide Average Daily Traffic (ADT) map was completed for six (6) divisions. In addition, over 30 specialized map products for internal and external ODOT customers were produced.

PROPOSED ACTIVITIES FOR FY 2004: Work will continue with enhancing the GRIP product, producing map products for our customers as well as developing software to improve the information access needed by ODOT customers. Some of the the planned activities will include but are not limited to the following:

- Completion of the ADT maps for the remaining 2 divisions.
- Re-engineering the OKMILE software to perform nodal analysis and calculate shortest route between cities.
- Maintain all software products resulting from the three year GRIP project
- Continue to make enhancements/improvements to existing GRIP project deliverables.
- Develop GIS map products for the Oversize/Overweight Bridge Interface and Automation Project
- Conduct in-house training on 'Using GeoMedia Professional, Oracle Spatial, LRSx and GeoMedia Transportation Manager to create map products; A guide to Standard Operating Procedures'

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003	\$ 854,000	(SPR)
	- 0 -	(STATE)
Estimated Cost for FY 2003	\$ 843,200	(SPR)
	- 0 -	(STATE)
Estimated Cost for FY 2004	\$ 226,200	(SPR)
	- 0 -	(STATE)

1201 County, City and other Planning Maps

PURPOSE AND SCOPE: To produce county and city maps showing reliable, accurate, legible and current information for roads, drainage features, street names, city limits, boundaries and man made culture. To produce other special purpose planning maps and graphics.

ACCOMPLISHMENTS DURING FY 2003: Three counties were completely redrafted by computer (CADD) from new inventories: Jackson, Pittsburg & Tillman County. Thirty counties previously drafted in CADD format were extensively revised bringing the state highway system, line styles, affected cities and population numbers up to date.

These include: Adair, Atoka, Beckham, Blaine, Bryan, Canadian, Carter, Cherokee, Delaware, Greer, Harper, Haskell, Hughes, Jackson, Kay, Kiowa, Logan, McClain, McCurtain, Oklahoma, Okmulgee, Ottawa, Osage, Payne, Pontotoc, Seminole, Texas, Tillman, Washita and Woodward.

The following incorporated city maps were completely redrafted by computer(CADD):

- | | | | | | | |
|----------|-----------|---------|-----------|------------|-------------|------------|
| Alderson | Altus | Ashland | Blair | Canadian | Crowder | Davidson |
| Duke | Eldorado | Elmer | Frederick | Grandfield | Haileyville | Hartshorne |
| Headrick | Indianola | Kiowa | Krebs | Hollister | Loveland | Manitou |
| Martha | McAlester | Olustee | Pittsburg | Quinton | Savanna | Tipton |

Special maps for I-40 Bridge repair, Top 25 Project Division maps, I-35/I-240 Construction web map, Revised Turnpike Insets, highway corridor maps and various other special graphics were also produced as needed by the department.

PROPOSED ACTIVITIES FOR FY 2004: Redraft by computer (CADD) seven or more county maps chosen from the following available inventories: Adair, Alfalfa, Caddo, Choctaw, Coal, Craig, Creek, Dewey, Garfield, Grady, Jefferson, Lincoln, Murray, Muskogee, Nowata, Pawnee, Pittsburg, Washington and Woods. Incorporated city maps within each county will also be redrafted. All city and county maps, presently in CADD format, will be updated as highway system revisions are completed and opened to traffic.

Keep abreast of technological advances through training, seminars, conferences and workshops.

Integrate the GIS Development line work and needs into our current mapping system. Utilize GPS graphics and Geo Media Pro mapping capabilities into the workplace. Use Geographical Resource Intranet Portal (GRIP) system to check highway data.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 220,000 (SPR) -0- (STATE)
Estimated Cost for FY 2003	\$ 218,800 (SPR) -0- (STATE)
Estimated Cost for FY 2004	\$ 177,000 (SPR) -0- (STATE)

PURPOSE AND SCOPE: To collect traffic data on state highways, interstates and the National Functional Classified System for establishing average daily traffic volumes. Approximately 3,300 locations are counted on the highway systems and 8,500 on the secondary system that includes the county road coverage and urban city street coverage in cities over 5,000 population. State highway and interstate locations are counted on a two-year cycle along with the county and city system coverage.

Counts collected on the highway system are incorporated into an Annual Average Daily Traffic (AADT) map printed annually for distribution. Counts collected on the county and city system are recorded and retained for office use. Highway traffic maps are published for public distribution.

ACCOMPLISHMENTS DURING FY 2003: All state, county and city systems were counted in the 39 counties scheduled for the 2003 count cycle.

PROPOSED ACTIVITIES FOR FY 2004: Continue to analyze all road systems for areas where coverage is deficient, establish new count stations as needed and delete locations that are no longer of value. Count all state, county and city systems in the 38 counties scheduled for the 2004 count cycle. Attend seminars, conferences and workshops to keep abreast of the latest technological advances. Contract to be developed to augment data collection efforts of staff.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 317,000 (SPR) -0- (STATE)
Estimated Cost for FY 2003	\$ 307,000 (SPR) -0- (STATE)
Estimated Cost for FY 2004	\$ 483,000 (SPR) -0- (STATE)

1302 Permanent Traffic Count Program

PURPOSE AND SCOPE: To collect hourly traffic data by lane for traffic monitoring and design needs. There are 36 Automatic Traffic Recorder (ATR) locations and 22 Automatic Vehicle Classification (AVC) locations in Oklahoma. The traffic data obtained are the basis for seasonal and axle factor variation as recommended for traffic monitoring in FHWA's Traffic Monitoring Guide. A biennial traffic characteristic report is generated from these sites.

ACCOMPLISHMENTS DURING FY 2003: Continued site renovation was completed at selected ATR and AVC sites. Four new AVC sites were established. Additionally, ADR-1000 and ADR 2000 counters were purchased to replace the older models and to compensate for increased equipment down time due to extended repair cycle time to the manufacturer (turnaround time for equipment shipped to manufacturer for repair increased from 6-8 weeks to 12-16 weeks).

PROPOSED ACTIVITIES FOR FY 2004: Planning for expansion of urban traffic data collection will continue for the Oklahoma City and Tulsa Metro areas. Continuing studies indicate that installation of radar detectors at selected sites along metro area interstates and expressways will provide a much needed enhancement of analysis capability of current urban traffic flow.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 209,000 (SPR) -0- (STATE)
Estimated Cost for FY 2003	\$ 209,000 (SPR) -0- (STATE)
Estimated Cost for FY 2004	\$ 217,000 (SPR) -0- (STATE)

1304 Purchase of Traffic Counting Equipment

PURPOSE AND SCOPE: To improve the efficiency of the traffic counting operation by systematic replacement of older out-dated equipment and to replace stolen or damaged equipment.

ACCOMPLISHMENTS DURING FY 2003: Several types of equipment were purchased during FY 2003. Purchases included, 35 PEEK ADR counter/classifiers, 200 Diamond Traffic Tally 4 counters, batteries for traffic counters and solar powered sites, , cell phones for field personnel, road tubes, clamps and nails for traffic counters, as well as skid truck calibration and traffic counter repair.

PROPOSED ACTIVITIES FOR FY 2004: To purchase only the necessary equipment and supplies to keep the traffic counting programs operational.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 220,000 (SPR) -0- (STATE)
Estimated Cost for FY 2003	\$ 134,000 (SPR) -0- (STATE)
Estimated Cost for FY 2004	\$ 210,000 (SPR) -0- (STATE)

1305 Vehicle Classification Counting Program

PURPOSE AND SCOPE: To gather vehicle classification data and develop estimates of the composition of traffic on the various Functional Classifications of roadways in the state and to collect complex traffic data required for planning, traffic and design studies. Data gathered and used to facilitate these studies includes machine counts, vehicle classification counts and turning movement studies with pedestrian counts.

ACCOMPLISHMENTS DURING FY 2003: Data gathered will be incorporated into the "2003 Oklahoma Traffic Characteristics Report". All 2-lane highway classification sites and 2-lane ATR (Automatic Traffic Recorder) locations were classified for 24 hours using Peek ADR-1000 machines.

A contract for vehicle classification by lane was completed with Progressive Engineering Technologies (PET) Corporation. The PET contractor classified most of the HPMS segments in urban areas and several design sites plus NBIS bridges and four-lane rural classification sites statewide. All classification data was submitted to FHWA in June 2002 using FHWA supplied VTRIS software. Data for numerous special studies were collected as follows:

- (A) For the Data Collection Branch
 - 3 - Turning movements with pedestrian counts
 - 29 - (24 hour) Hourly Machine Counts
 - 10 - (24 hour) Cumulative Machine Counts
 - 236 - (24 hour) Vehicle Classification Counts
- (B) For Engineering Services Branch
 - 16 - Turning movements with pedestrian counts
 - 81 - (24 hour) Hourly Machine Counts
 - 7 - (24 hour) Cumulative Machine Counts
 - 0 - (24 hour) Vehicle classification counts
- (C) For the Traffic Engineering Division
 - 58 - Turning movements with pedestrian counts
 - 67 - (24 hour) Hourly Machine Counts
 - 57 - (24 hour) Cumulative Machine Counts
 - 0 - (24 hour) Vehicle classification counts
- (D) For other Divisions
 - 0 - Turning movements with pedestrian counts
 - 13 - (24 hour) Hourly machine counts
 - 0 - (24 hour) Cumulative machine counts
 - 4 - (24 hour) Vehicle classification counts

PROPOSED ACTIVITIES FOR FY 2004: Vehicle classification data will continue to be collected by machine from either state forces or by contract. The AVC (Automatic Vehicle Classification) and WIM (Weigh-in-Motion) sites will continue to be polled and statewide axle factors computed for traffic monitoring and pavement design needs and special studies data will be collected as requested. Attend seminars, conferences, workshops and set up demonstrations to keep abreast of the latest technological advances.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003	\$ 367,000	(SPR)
	-0-	(STATE)
Estimated Cost for FY 2003	\$ 305,000	(SPR)
	-0-	(STATE)
Estimated Cost for FY 2004	\$ 303,000	(SPR)
	-0-	(STATE)

PURPOSE AND SCOPE: To collect and conduct preliminary analysis of data describing vehicle characteristics and vehicle weight trends. The Department uses this data as an intricate part of the traffic monitoring system. These data collection systems provide axle and weight factors used in design and pavement management studies and to fulfill FHWA requirements for the Strategic Highway Research Program (SHRP) and the Long Term Pavement Performance (LTPP) program. The Department operates 20 permanent weigh-in-motion (WIM) data collection sites located throughout the state.

ACCOMPLISHMENTS DURING FY 2003: The Department renewed the Weigh-in-Motion Maintenance Contract for the 2nd year with International Road Dynamics of Saskatoon Canada. New construction and site renovation was conducted throughout the year. Site calibration procedures were improved with the establishment of a dedicated truck/trailer rig contributing to greater efficiency and data integrity. The scope of the work completed during the second year of the contract encompassed:

- 1) Construction of seven (5) new sites (2 WIM and 3 AVC)
- 2) Renovation of thirteen (14) existing sites (5 WIM, 8 AVC, and 1 ATR)
- 3) Routine scheduled maintenance for 20 WIM sites
- 4) Calibration of 20 WIM sites
- 5) On-call repair/services for 20 WIM sites
- 6) Data validation and reporting for 20 WIM sites

PROPOSED ACTIVITIES FOR FY 2004: The scope of work to be accomplished in FY 2004 is as follows:

- 1) Site Renovation (loop/sensor replacement) at selected locations
- 2) Routine scheduled maintenance for 20 WIM sites
- 3) On-call repair/services for 20 WIM sites
- 4) Calibration of 20 WIM sites
- 5) Data validation and reporting for 20 WIM sites

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 775,000 (SPR) -0- (STATE)
Estimated Cost for FY 2003	\$ 876,000 (SPR) -0- (STATE)
Estimated Cost for FY 2004	\$ 665,000 (SPR) -0- (STATE)

PURPOSE AND SCOPE: The Traffic Monitoring System (TMS) is a comprehensive statewide traffic data gathering, editing and reporting system created to fulfil the requirements of the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 and TEA 21. The purpose of TMS is to computerize traffic estimation and reporting, including data from public and private non - state government entities.

ACCOMPLISHMENTS DURING FY 2003: Annual processing was completed for the traffic year 2001 and the data was checked for accuracy. The annual publication of the AADT map was completed. The implementation of the non-highway count program was completed. The complete NHS and non - highway count site location maps were updated and stored in digital format in preparation to be used with a GIS - based system.

PROPOSED ACTIVITIES FOR FY2004: Revise and restructure of existing traffic count programs. Convert the AADT computation process from a functional class based to a route or geographic based system. Revise and streamline process of recording and compiling short term counts. Cross train personnel in daily, monthly and annual data processing. Streamline and simplify the process of editing and reporting data for HPMS and the Traffic Characteristics Report. Continue gathering data and production of the Annual Average Daily Traffic Map.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 120,000.	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 120,000.	(SPR)
	-0-	(State)
Programmed Amount for FY 2004	\$ 132,000	(SPR)
	-0-	(State)

PURPOSE AND SCOPE: Traffic forecasts provide the basis for geometric and structural design of new highways and improvement of existing highways. The existing or assigned traffic volumes are projected twenty (20) years into the future for design purposes. Also, the factors for determining Design Hourly Volume (DHV) of the Average Daily Traffic (ADT), percent of trucks of the DHV, and the percent of heavy trucks are prepared for each request of design traffic information.

ACCOMPLISHMENTS DURING FY 2003: Design traffic was furnished to the city and county governments and various divisions within ODOT. Information prepared for the larger population areas was based on the comprehensive area and regional transportation studies in those cities. Information for rural communities and small cities was prepared utilizing historical data, such as traffic volumes, vehicles use, population trends, special traffic counts and other related traffic information gathered through special studies. Approximately 56 requests for design traffic were completed. Several consultant traffic analyses were overseen and edited.

PROPOSED ACTIVITIES FOR FY2004: Design traffic data will continue to be furnished for cities, counties and to ODOT divisions upon approved requests. Traffic analysis and projections will be completed, as requested for all programmed construction projects. Project Planning Reports and other required special studies will be developed. Keep informed of technological advances through attendance of seminars, conferences and workshops.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 120,000.	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 120,000.	(SPR)
	-0-	(State)
Programmed Amount for FY 2004	\$ 132,400	(SPR)
	-0-	(State)

1310 Skid Studies Program

PURPOSE AND SCOPE: To assess the skid resistance for pavement surfaces of Oklahoma's highway system in accordance with the guidelines of the Highway Safety Improvement Program and ASTM standards. The scope of the program includes: scheduled testing of all roadways comprising the National Highway System in a three-year test cycle, annual testing of all interstate highways and Strategic Highway Research Program (SHRP) sites, and special testing conducted as required.

ACCOMPLISHMENTS DURING FY 2003: The Department conducted pavement friction (skid) testing of approximately 7,100 miles of highway and identified approximately 568 miles of pavement with inadequate skid resistance. Skid data was collected for all state and federal highways in Divisions 4 and 8 as well as all Interstate highways statewide.

PROPOSED ACTIVITIES FOR FY 2004: Approximately 14,000 miles of highway is planned for testing in Divisions 1,2, and 3. Skid System service and calibration at International Cybernetics Corporation will be scheduled in the 3rd quarter. Evaluate the replacement of skid truck system and purchase if feasible.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003	\$ 129,000	(SPR)
	-0-	(STATE)
Estimated Cost for FY 2003	\$ 119,000	(SPR)
	-0-	(STATE)
Estimated Cost for FY 2004	\$ 370,000	(SPR)
	-0-	(STATE)

Purpose and Scope: Complete Training of Central Office Divisions in the use of MicroStation Version 8.0 and InRoads Version 8.4. Provide additional development of Standards and Workflows and document these and existing workflows for the Construction Division, Bridge, Traffic, and Right of Way Divisions. Develop additional documented standards and workflows to provide guidance for staff and the consulting community. This will ensure consistency and improve the quality of construction plans.

Accomplishments during 2003: Existing drafting resources for the Survey, Roadway, Traffic and Right-of-Way Divisions have been converted to work with the new version of the software. Existing and Additional Standards have been put in place and documented for Training and Informational purposes for both Department staff and the Consulting community. These resources include Cell Libraries, Named Level conventions, Font Resources, Settings Files used by MicroStation V. 8. Seed files have been developed specifically for tasked workflows such as Survey, Construction, Utility, Drainage, etc., which has provided a means of implementing the new Standards, and improved workflows which increasing production. The new seed files are also a step closer to AutoCad files which enables smoother translation for the Consulting Community doing business with ODOT and provides a means of implementing standardization between ODOT and their business partners without significantly impacting production for these partners. Additional Development in Preferences, Feature Styles and Symbology used by InRoads V. 8.4 which incorporates the new standards and provides a means of additional workflow development has also been completed. The development of documentation of procedures and workflows, both existing and new, have been completed so that the resources, and workflows may be maintained and further enhanced in the future by Department personnel. Customized Training for the Administrators has been completed. An automated process for Project Creation has been developed as a means of initiating the Standards at the beginning plan production process which sets up the bulk of the file structure and includes the file naming conventions that have also been developed

Proposed Activities for 2004: Provide training for the end users in Roadway and Survey. Provide additional development in Standards and Workflows for the Construction, Bridge, Right of Way and Traffic Divisions. Analyze existing processes, procedures and workflows, and eliminate outmoded techniques and develop improved workflows and additional standards that are needed. All new developments will be documented to provide detailed step-by-step descriptions of the processes and workflows. Training of the end users in the new workflows and processes as well as use of the new versions of the software will be provided.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ - 0 - (SPR) - 0 - (STATE)
Estimated Cost for FY 2003	\$ 255,000 (SPR) - 0 - (STATE)
Estimated Cost for FY 2004	\$ 400,000 (SPR) - 0 - (STATE)

1403 Design Manual

PURPOSE AND SCOPE: To revise, update and complete the Roadway Design Manual to current Department, AASHTO and FHWA Design Criteria, Policies and Prodedures through consultant services. Sections to be expanded and revised include, but are not limited to, geotechnical, design exceptions, pavement design, safety design reviews, interstate access approvals, traffic engineering, drainage design, bridge design, project development and environmental procedures.

ACCOMPLISHMENTS DURING FY 2003: None

PROPOSED ACTIVITIES FOR FY 2004: Coordinate with Consultant to develop selected manuals.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003	\$ -0-	(SPR)
	\$ -0-	(STATE)
Estimated Cost FY 2003	\$ -0-	(SPR)
	\$ -0-	(STATE)
Estimated Cost FY 2004	\$ 386,000	(SPR)
	\$ -0-	(STATE)

1510 Justification Studies

PURPOSE AND SCOPE: To study the economic, environmental and other effects of design features such as interchanges, grade separations, bypasses, utility structures, pedestrian structures, etc., for the purpose of determining the economic and engineering feasibility of such proposals.

ACCOMPLISHMENTS DURING FY 2003: Review of consultant studies completed.

PROPOSED ACTIVITIES FOR FY 2004: Review consultant studies for I - 35 / Rock Creek Interchange Justification Study in Cleveland County, the I - 40 / Acme Road and the I - 40 / Bryan Avenue Justification Studies in Pottawotamie County. Approved studies will be scheduled and conducted upon request. Consultant studies will be overseen as needed. Keep informed of technological advances through attendance of seminars, conferences and workshops.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 5,000	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 2,000	(SPR)
	-0-	(State)
Estimated cost for FY 2004	\$ 12,000	(SPR)
	-0-	(State)

PURPOSE AND SCOPE: Establish and maintain the functional classification system and federal-aid eligibility of the Oklahoma highway system. To maintain all records, correspondence and documentation associated with the functional classification and federal-aid eligibility of roads under local jurisdiction. Provide coordination between local jurisdictions and the Federal Highway Administration (FHWA). Assist cities with a population of 5000 or greater in establishing an official urban area boundary by coordinating efforts between the local jurisdictions and the FHWA. Act as liaison between ODOT and the FHWA in determining the federal-aid eligibility of roads under state jurisdiction. Prepare and submit agenda items and supporting documents pertaining to state highway revisions to the State Transportation Commission. Coordinate any revisions to the United States route numbered system with the American Association of State Highway and Transportation Officials (AASHTO). Organize, maintain and secure all historical documents and maps pertaining to the history of the State Highway and functional classification systems.

ACCOMPLISHMENTS DURING FY 2003: Conducted field meetings with local county officials including the directors of the Association of Regional Councils (OARC) whereby we discussed ODOT policies and procedures for rural functional classification revisions under Senate Bill No. 1056. Processed local government functional classification revisions and submitted all revisions to the FHWA. Conducted field meetings with local officials and built consensus on any required changes to existing urban area boundaries. The Systems Section developed procedures for the creation of urban area maps using GeoMedia Professional and Oracle spatial software. Created and distributed map products depicting the 1990 and 2000 urban area boundaries for sixty-six urban areas. The Systems Section revised functional classification on roads in fifty-six urbanized area boundaries. The Systems Section coordinated United States route revisions with ASSHTO. The section prepared and submitted maps and documents pertaining to the national highway system to the FHWA. Published systems related functional classification information through the Geographical Resource Intranet Portal (GRIP). Complied with OAC 730:10-9-8 effective Jan. 1, 2000 and thereby maintained the State Highway Infrastructure Bank. Continued development and maintenance of maps and documents for the memorial bridges and highways and made the information accessible on ODOT's web page. Maintained, scanned and updated files and records of the state highway system. Produced maps depicting HPMS sample sections in urban and urbanized areas.

PROPOSED ACTIVITIES FOR FY 2004: Continue to transfer systems maps and documents to the ODOT geographical information system (GIS) environment. Prepare and submit agenda items and supporting documents pertaining to the state highway system to the state transportation commission. Prepare and submit maps and documents pertaining to the national highway system to the FHWA. Hold meetings with local government officials that will address revisions to the rural and urban collector systems as set forth under senate bill No. 1056. Revise the control section system for the state highway system as needed. Continue to develop maintain and update ODOT Web site for memorial bridges and highways. Process any functional classification revisions requested by local government jurisdictions. Maintain the state highway infrastructure bank. Produce and maintain an atlas of county and urban area maps depicting the rural and urban functional classification systems. Keep informed of the latest technological advances by attending seminars, conferences and workshops.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for 2003	\$ 175,000	(SPR)
	-0-	(STATE)
Estimated Cost for FY 2003	\$ 175,000	(SPR)
	-0-	(STATE)
Estimated Cost for FY 2003	\$ 180,800	(SPR)
	-0-	(STATE)

PURPOSE AND SCOPE: To maintain up-to-date software and techniques to estimate current and future needs of the State Highway System. To publish a Needs Study & Sufficiency Report biennially showing the physical and financial needs of the State Highway System over a twenty-year period for construction, maintenance and administration. To identify the Top 25 Priority List of critical projects by Commission District. To maintain a geometric deficiency file of the State Highway System. To maintain a maintenance and construction log of highway projects. To develop, maintain and recommend a list of highway segments for removal from the State Highway System and its associated cost.

ACCOMPLISHMENTS DURING 2003: Finalized update of highway: subsection, systems, and inventory for the 2002 Sufficiency File. Compiled and validated field data collected for the 2003 Highway Needs Study and Sufficiency Rating Report. Determined construction and maintenance cost estimates for the 2003 program. Updated factors for statewide traffic, accidents, surface replacement and surface obsolescence in various programs. Updated proposed Highway File for future routes. Assembled top 25 Priority List of critical highways by Transportation Commission District. Published and distributed the 2003 Needs Study and Sufficiency Rating and the Top 25 Priority List.

PROPOSED ACTIVITIES FOR FY 2004: Update the Sufficiency and Maintenance Manuals. Update the State Highway: subsection, inventory and improvement data for the Sufficiency File prior to field collection of pertinent data. Update geometric data contained in the Deficiency File. Complete field revision of the Needs Study and Sufficiency Report. Begin revisions of the Needs Study Report, Volumes 1&2. Begin revising highway standards used for planning purposes. Maintain a tracking procedure for the Transportation Improvement Corridors. Review, revise and publish the State Highway Removal Report. Contract for modernization of Needs Study.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003	\$ 165,000	(SPR)
	-0-	(State)
Estimated Cost for FY 2003	\$ 70,000	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 320,000	(SPR)
	-0-	(State)

1604 Pavement Management Systems

PURPOSE AND SCOPE: To develop and implement the Department's Pavement Management System (PMS). Maintain a computer database of pavement distress and other roadway characteristics used for the analysis of pavement condition and performance and as an aid to pavement design. Maintain application software necessary to analyze roadway information for pavement management and supply data for inclusion in the Highway Performance Monitoring System (HPMS).

ACCOMPLISHMENTS DURING FY 2003: Continued development and implementation of PMS software. Produced pavement management analysis of non-toll Interstate Highway System in Oklahoma. Completed collection of distress data on the following:

- Entire State Highway System
- Non-highway HPMS sample sections in all Divisions

PROPOSED ACTIVITIES FOR FY 2004: Continue development and implementation of PMS software. Begin new round of distress data collection of distress data. Produce pavement management analysis of entire state highway system. Keep informed of the latest technological advances and practices through seminars, conferences, and workshops. Utilize PMS data collection images to implement statewide video log. Develop Falling Weight Deflectometer (FWD) pilot project for highway system.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 715,000 (SPR) -0- (STATE)
Estimated Cost for FY 2003	\$ 715,000 (SPR) -0- (STATE)
Estimated Cost for FY 2004	\$ 1,250,000 (SPR) -0- (STATE)

1700 General Urban Transportation Planning Activities

PURPOSE AND SCOPE: This item includes managing the Strategic Planning Branch and the conduct of those general planning and research activities which cannot be ascribed to specific transportation studies contained in the unified planning work programs or the SPR Report. These activities include; a) coordination with appropriate ODOT staff members and Field Divisions, b) coordination with and among local, state, and federal officials, c) dissemination of social and economic data and traffic counts to the public and private sector on request, d) providing technical assistance on planning and research activities/studies at request, e) tracking federal and state legislation and regulations affecting the Department and f) keeping abreast with the latest technological advances and federal regulations in transportation planning, ITS, etc. through seminars, workshops and reading materials.

ACCOMPLISHMENTS DURING FY 2003: Coordination work was continued with appropriate ODOT staff members and Field Divisions. Socioeconomic data and traffic counts were provided, at request, to local and state officials and to citizens. Staff attended various seminars and workshops related to management, transportation planning, homeland security and policies in order to maintain, upgrade and develop needed expertise, proficiency and professionalism. Assistance related to Branch Functions was provided. Coordination with and among local, state and federal officials was continued. Monitored federal and state legislation and regulations affecting the Department

PROPOSED ACTIVITIES FOR FY 2004: Coordination with appropriate ODOT staff members, Field Divisions and local, state and federal officials will be continued. Dissemination of pertinent planning, ITS, concerning transportation planning and the re-authorization of TEA-21 will be provided upon request. Professional enrichment of branch members will be pursued through attendance at workshops, seminars and conferences.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Cost for FY 2003	\$ 50,000	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2003	\$ 45,000	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2004	\$ 50,000	(SPR)
	\$ -0-	(State)

PURPOSE AND SCOPE: To maintain up-to-date socioeconomic and land use data and a viable Long Range Transportation Plan in compliance with the provisions of TEA-21.

ACCOMPLISHMENTS DURING FY 2003: ACOG moved toward developing the ITS Architecture. Continued development of regional Incident Management system. The Southwest Outer Loop Corridor MIS is continuing. MPO staff were involved in the ongoing Commercial Vehicle Information Systems and Networks (CVISN) planning process. Continued to work with ODEQ on monitoring CO and Ozone levels. The Clean Air Committee promoted an extensive public education campaign "Let's Clear the Air". Continued coordinating services with COTPA for transportation of the Elderly and Disabled. Updated the 2001-2003 OCARTS Area Transportation Improvement Program (TIP). The FFY 2003-2005 TIP and the FY 2003 UPWP were prepared and approved by FHWA & FTA.. The FY 2003 Agreement was executed.

Worked with the ACOG staff in developing procedures for the STIP and yearly update of the ACOG TIP. Worked closely with ACOG staff in developing the "Early Action Compact" for meeting the new 8-Hour ozone National Ambient Air Quality Standard and ozone control measures for mobile sources appropriate to the Oklahoma City metropolitan area. Assisted ACOG staff with obtaining new software for updating the OCARTS. Assisted ACOG staff as preparations for 2025 update to OCARTS begin.

PROPOSED ACTIVITIES FOR FY 2004. Areas of special emphasis in FY 2004 are: Monitoring of demographic and socioeconomic data, Transportation Planning Data Management; Geographic Information System Improvements and Transportation Planning Assistance. Continue Long Range Transportation Planning, Short Range Transportation Planning, Congestion Management, Elderly and Disabled Transportation Planning and Air Quality Planning. Continue Citizen Participation and Public Information. Continue Program Coordination and Local Technical Assistance. Maintain staff training and dissemination of planning documents. Continue with development of the Oklahoma City metropolitan EAC and other air quality initiatives. Continue management of the planning process.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 25,000	(SPR)
	\$ -0-	(State)
	\$ 815,917	(PL)
	\$ 203,979	(Local)
Estimated Cost for FY 2003	\$ 23,000	(SPR)
	\$ -0-	(State)
	\$ 643,870	(PL)
	\$ 160,968	(Local)
Estimated Cost for FY 2004	\$ 25,000	(SPR)
	\$ -0-	(State)
	\$ 847,560	(PL)
	\$ 211,890	(Local)

PURPOSE AND SCOPE: To maintain up-to-date socioeconomic and land use data and a viable Long Range Transportation Plan (LRTP) in compliance with provisions of TEA-21 and all applicable transportation planning regulations for urbanized areas.

ACCOMPLISHMENTS DURING FY 2003: Elements of the *2025 Mobility Plan*, LRTP, were continued as described in the FY 2003 UPWP. A Joint Certification Statement between ODOT and the Indian Nations Council of Governments (INCOG) was signed. Preparation and finalization of the FY 2003 UPWP was completed. The FY 2003 Agreement was executed and authorization to expend federal funds effective July 1, 2002 through June 30, 2003 was granted by the FHWA. Public involvement activities were continued. Technical support was provided to Oklahoma Department of Environmental Quality (DEQ) and the Tulsa City-County Health Department to maintain compliance with Federal Clean Air Act provisions and new National Ambient Air Quality Standards (NAAQS) for ozone and particulate matter. Continued support of Ozone Alert and MERIT programs. Conducted broad based public involvement activities in support of the planning process, air quality and transit programs. The INCOG area FY 2003 - 2005 TIP was prepared and approved. INCOG initiated development of an "Early Action Compact" (EAC) for meeting the new 8-hour ozone National Ambient Air Quality Standard and Ozone control measures for mobile sources for the Tulsa Metropolitan Area.

PROPOSED ACTIVITIES DURING FY 2004: Implementation of the FY 2004 UPWP: traffic counts collection; accident data analysis; truck and travel estimates; gathering material to support the Incident and Congestion (including incidents) Management Systems; complete the ITS study and initiate deployment; continue monitoring of O₃ and CO emissions; initiate air quality inventory and modeling; complete the EAC and selection of appropriate mobile source control measures, improve the private sector participation opportunities in the transportation planning process; continue the ride share and car pool assistance programs and providing technical support to the Oklahoma DEQ and Tulsa City-County Health Department; continue implementation of the Ozone Alert days and MERIT programs; a public information/education program on air quality will be maintained and supported especially the 8-hour ozone standards and the new NAAQS standards for particulate matter. The FY 2005 UPWP will be prepared in full compliance with the re-authorized TEA-21. Administration of the urbanized STP funds project selection process will be maintained. The FY 2003 Joint Certification Statement and the FY 2004 Agreement will be prepared and executed. Continue staff training, education and attendance at workshops and seminars.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 15,000	(SPR)
	\$ -0-	(State)
	\$ 689,645	(PL)
	\$ 172,411	(Local)
Estimated Cost for FY 2003	\$ 30,000	(SPR)
	\$ -0-	(State)
	\$ 549,290	(PL)
	\$ 137,323	(Local)
Estimated Cost for FY 2004	\$ 30,000	(SPR)
	\$ -0-	(State)
	\$ 839,870	(PL)
	\$ 209,968	(Local)

PURPOSE AND SCOPE: To maintain an up-to-date socioeconomic and land use data and a viable Long Range Transportation Plan in compliance with the provisions of TEA-21.

ACCOMPLISHMENTS DURING FY 2003: Transportation Planning for the Lawton Metropolitan Area was carried out as described in the Unified Planning Work Program (UPWP) FY 2003. This consisted of: amending the Public Involvement Process document and circulating to the public and state and federal agencies, as well as adoption, implementing the Lawton Area Transit System (LATS), updating the Data Report to include Census 2000 information, preparing a 2002 Joint Certification Statement between ODOT and LMAPC and completing the FY 2003 UPWP in accordance with TEA-21. The FY 2003 Agreement was executed and authorization to expend federal funds was granted by the FHWA. The FY 2004 - 2006 Transportation Improvement Program (TIP) was compiled, circulated, and approved.

PROPOSED ACTIVITIES FOR FY 2004: Continue to ensure that the basic socioeconomic and other data needed to continue the transportation planning process is update utilizing the most current available data. Continue to work with the City of Lawton in maintaining recently instituted transit services. Implement short-range transportation activities derived from the long-range transportation plan. Continue staff education and training. Prepare the FY 2005 UPWP, execute the FY 2005 Agreement, and ensure a FY 2004 Joint Certification Statement.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003:	\$ 15,000	(SPR)
	\$ -0-	(State)
	\$ 120,000	(PL)
	\$ 30,000	(Local)
 Estimated Cost for FY 2003:	 \$ 10,000	 (SPR)
	\$ -0-	(State)
	\$ 100,406	(PL)
	\$ 25,102	(Local)
 Estimated Cost for FY 2004:	 \$ 15,000	 (SPR)
	\$ -0-	(State)
	\$ 146,524	(PL)
	\$ 36,631	(Local)

1709 **Fort Smith Transportation Area Transportation Study**

PURPOSE AND SCOPE: To maintain up-to-date socioeconomic and land use data and a viable Long Range Transportation Plan in compliance with the provisions of TEA-21 and all applicable transportation planning regulations for urbanized area.

ACCOMPLISHMENTS DURING FY 2003: The tasks listed in the FY 2003 Unified Planning Work Program (UPWP) were completed. Continued analysis of the transportation and socioeconomic elements of the Long Range Transportation Plan were continued. Staff continued to collect data on proposed corridors for a controlled-access facility in the Oklahoma portion of the Ft. Smith metropolitan planning area. General administrative functions and coordination among the local, state, and federal agencies was continued. The FY 2004 Agreement was initiated. The FY 2004 UPWP was prepared and approved.

PROPOSED ACTIVITIES FOR FY 2004: The Oklahoma Department of Transportation will continue coordination with the Bi-State Metropolitan Planning Organization and the Arkansas DOT in maintaining the 3-C planning process in the Fort Smith metropolitan area. Continued staff education, training, and attendance at workshops and seminars.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003:	\$ 2,500	(SPR)
	\$ -0-	(State)
	\$ 18,000	(PL)
	\$ 4,500	(Local)
Estimated Cost for FY 2003:	\$ 2,500	(SPR)
	\$ -0-	(State)
	\$ 11,535	(PL)
	\$ 2,884	(Local)
Estimated Cost for FY 2004:	\$ 3,500	(SPR)
	\$ -0-	(State)
	\$ 13,826	(PL)
	\$ 3,457	(Local)

1719 **Statewide Transportation Improvement Program (STIP)**

PURPOSE AND SCOPE: To develop, maintain and amend a financially-constrained three year federally funded transportation construction program for the State of Oklahoma in compliance with TEA-21 and in cooperation with the Federal Highway Administration (FHWA), Federal Transit Administration (FTA), three Metropolitan Planning Organizations (MPO): ACOG - Association of Central Oklahoma Governments, INCOG - Indian Nations Council of Governments and LMAPC - Lawton Metropolitan Area Planning Commission, Bureau of Indian Affairs (BIA) and Tribes.

ACCOMPLISHMENTS DURING FY 2003: Developed the FFY 2003 - 2005 Statewide Transportation Improvement Program (STIP) for implementation. Maintained the FFY 2003 - 2005 STIP through the following amendment process: All Amendments of the FFY 2003 - 2005 STIP and TIPs have been completed in accordance with the *Approved Procedures for Developing and Amending the STIP and TIP*. The Process includes publication of proposed amendment for a minimum of 14 days for review and comment. The public involvement process was completed in accordance with TEA 21 Section 1203 and 1204, regarding publication of project amendments.

The FFY 2003 - 2005 STIP contains an Executive Introduction of Transportation Commission with Table of Organization; Definition and Explanation of the STIP; Projected Revenues and Expenditures Summary; FFY 2003,2004 and 2005 Construction Programs; Construction Project Map for FFY 2003-2005; Introduction and Explanation of MPOs with listing; ACOG TIP; INCOG TIP; LMAPC TIP; Indian Reservation Roads Transportation Improvement Program (TIP); Explanation of the STIP process; STIP and TIP Development and Amendment Procedures; Joint Memorandum between FHWA and FTA; Certification.

FFY 2003-2005 STIP was developed in accordance with the *Procedures for Developing and Amending the STIP and TIP* approved by the Department of Transportation, Federal Highway Administration, Federal Transit Administration, ACOG, INCOG and LMAPC.

PROPOSED ACTIVITIES FOR FY 2004: Areas of special emphasis in FY 2004 are: Develop the FFY 2004 - 2006 Statewide Transportation Improvement Program for implementation. Maintaining the FFY 2004 portion of the STIP through the approved *STIP/TIP Amendment Procedures*. Develop procedures for consultation with non-metropolitan local officials.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 65,000	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2003	\$ 65,000	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2004	\$ 65,000	(SPR)
	\$ -0-	(State)

1901 National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permits

PURPOSE AND SCOPE: The United States Environmental Protection Agency (EPA) has promulgated regulations in 40 CFR 122 requiring municipalities with a population over 250,000 to obtain a National Pollutant Discharge Elimination System (NPDES) permit for their separate stormwater sewer systems. ODOT is required under this regulation to obtain a permit for its stormwater runoff system within the cities of Oklahoma City (OKC) and Tulsa city limits. ODOT selected the option to be a CO-permittee with the City of Oklahoma City and Tulsa in obtaining an NPDES permit. ODOT, OKC, Tulsa and the EPA selected one of the test outfalls located in each city to represent highway runoff. ODOT does not have the expertise or staff available to perform the storm sewer outfall water testing required under this permit. ODOT has a Memorandum of Understanding with OKC and Tulsa for performing the testing and report writing necessary to monitor the outfall selected to be representative of highway runoff.

ACCOMPLISHMENTS DURING FY 2003: Completed annual reports for Oklahoma City and Tulsa for submission to EPA. Completed required stormwater runoff testing. Coordinated stormwater issues for ODOT.

PROPOSED ACTIVITIES FOR FY 2004: Continue coordination with internal and external stakeholders regarding stormwater and NPDES issues. Obtain consultant assistance with upcoming permitting issues.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ -0- (SPR) -0- (STATE)
Estimated Cost for FY 2003	\$ -0- (SPR) -0- (STATE)
Estimated Cost for FY 2004	\$ 400,000 (SPR) -0- (STATE)

1902 Statewide Long Range Transportation Planning Activities

PURPOSE AND SCOPE: To update and maintain current data associated with the Statewide Intermodal Transportation Plan (SITP) and other statewide planning activities in accordance with the provisions of TEA-21. To conduct and/or participate in the development of plans relating to Transportation Improvement Corridors and other corridors identified in the SITP.

ACCOMPLISHMENTS DURING FY 2003: Continued to monitor trends and data relative to the 2000 - 2025 SITP including new legislative trends (financing options) and demographic data developments (release of the 2000 Census data). Initiated and completed a Congressionally-mandated corridor study on SH 3 in McCurtain and Pushmataha Counties. Worked with the Oklahoma University and Oklahoma State University in updating and/or implementing a new multimodal statewide freight forecasting model. Completed applications for National Corridor and Planning Development (NCPD) and the Transportation Community and System Preservation (TCSP) programs. Provided Congressionally-mandated data on highway corridors in Oklahoma and their needs.

PROPOSED ACTIVITIES FOR FY 2004: Initiate preparations for updating the 2000 - 2025 SITP by defining update type and researching requirements for SITPs in new federal transportation legislation; monitor transportation, legislative, and demographic trends relative to the 2000 - 2025 SITP. Initiate, participate and/or complete corridor studies on Transportation Improvement Corridors or other corridors in the State. Initiate corridor study for the Boise City bypass in Cimarron County on the Ports-to-Plains Corridor. Coordinate and assist Arkansas with the US 412 Siloam Springs corridor study. Complete new NCPD and/or TCSP grant applications. Continue to attend conferences and training courses related to Statewide and Corridor planning and grant applications.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003:	\$ 10,000	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2003:	\$ 10,000	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2004:	\$ 200,000	(SPR)
	\$ -0-	(State)

1903 **Intelligent Transportation Systems Planning (ITS)**

PURPOSE AND SCOPE: Incorporate Intelligent Transportation Systems (ITS) into the transportation planning process in compliance with the provisions of TEA-21 and / or other transportation re-authorization. Use an ITS Integration Strategy by defining roles, responsibilities and shared operational strategies to address key policy and operational issues creating and/or updating the conceptual design for ITS within the Planning area. Ensure the interoperability and institutional / technical integration of ITS efforts through compliance with ITS Statewide / Regional Architectures and related ITS Standards.

ACCOMPLISHMENTS DURING FY 2003: Secured ITS Integration funding for the systems analysis and design of Statewide Strategic ITS Program Plan projects and for the systems analysis / design and deployment of Oklahoma's Commercial Vehicle Information Systems and Networks (CVISN) Program Plan projects. Initiated use of 511 Traveler Assistance Program funding to develop a 511 deployment plan. Assisted Oklahoma City Metropolitan Planning Organization (MPO) by serving on ITS committees for Incident Management, Quick Clearance Policy and Technology / Operations. Assisted Oklahoma City MPO in the completion of the OCARTS Regional ITS Architecture and the OCARTS Incident Management Guide . A Quick Clearance Bill for the State of Oklahoma passed in April 2003 with an effective date of November 2003.

PROPOSED ACTIVITIES FOR FY 2004: Secure ITS Integration funding for the systems analysis / design and deployment of Oklahoma's Commercial Vehicle Information Systems and Networks (CVISN) Program Plan projects. In coordination with MPOs and other state and local agencies, complete, distribute and maintain a Statewide Strategic ITS Implementation Plan / Architecture / Evaluation Plan, distribute the Oklahoma City ITS Implementation Plan/Architecture, distribute the Tulsa Area ITS Implementation Plan/Architecture, assist Oklahoma City and Tulsa areas with development of Incident Management procedures and training. Maintain Oklahoma's CVISN and Statewide Strategic ITS Program Plans and Architectures.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003:	\$ 140,100	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2003:	\$ 80,000	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2004:	\$ 80,000	(SPR)
	\$ -0-	(State)

PURPOSE AND SCOPE: To monitor and participate in air quality transportation planning developments relating to requirements of the Clean Air Act Amendments and TEA-21. To represent the Department in air quality nonattainment and transportation conformity developments and actions, if necessary. To analyze and comment on air quality nonattainment and transportation regulations and law. To maintain information flow to and from decision-makers regarding air quality/transportation issues, developments, regulations and laws. To develop staff personnel to participate in air quality/transportation planning. To enable the Department to be a progressive participant in reducing the impacts of transportation-related pollution.

ACCOMPLISHMENTS DURING FY 2003: The following actions occurred during FY 2003: participation in the air quality/transportation planning activities of the Lawton, Oklahoma City, and Tulsa Metropolitan Planning Organizations (MPO). These activities included participation in the development of "Early Action Compacts (EAC)" for the Oklahoma City and Tulsa Metropolitan areas as pre-emptive actions to avoid designation as nonattainment for the new 8-Hour Ozone National Ambient Air Quality Standards (NAAQS). As an adjunct to this EAC development, was the securing of funds for the Oklahoma Department of Environmental Quality (ODEQ) to conduct air quality modeling which is critical to development of the EACs. Funds for the EACs came from the SPR funds allocated to the Department and PL funds from both the Oklahoma City and Tulsa MPO. The Department also participated in post-EAC activities such as developing appropriate ozone control measures for mobile sources. The Department is on the Technical Advisory Committee for the EAC Statewide Implementation Plan being developed by the ODEQ.

Other accomplishments: research and development of resource materials on air quality/transportation issues; and review and comment on MPO air quality education programs. Coordinate the planning process for air quality modeling funding and actions between the State's MPOs, ODOT, and the ODEQ; monitoring air quality court decisions on new ozone and particulate matter regulations and regulatory agency (Environmental Protection Agency - EPA) actions toward implementing new 8-Hour Ozone Standard NAAQS. This included providing EPA with written comments on the proposed 8-Hour NAAQS and working with the FHWA, MPOs, and ODEQ in having a local conference on the proposed regulations. Comments were also provided on transportation conformity regulations.

PROPOSED ACTIVITIES FOR FY 2004: Maintain participation in EACs and development of the EAC Statewide Implementation Plan. Maintain research and participation in air quality/transportation issues, developments, regulations and laws. Participate in Memorandum of Agreement and other requirements (transportation conformity) of nonattainment status if any area of the State becomes nonattainment. Provide data for air quality modeling efforts. Continue to develop education materials and courses for Department personnel regarding air quality and transportation. Participate in MPO and ODEQ air quality/transportation initiatives, educational programs, and efforts to reduce pollution. Continue staff education through FHWA, EPA, NHI, NTI and other agency courses, seminars, and conferences.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003:	\$ 25,000	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2003:	\$ 20,500	(SPR)
	\$ -0-	(State)
Estimated Cost for FY 2004:	\$ 25,000	(SPR)
	\$ -0-	(State)

PURPOSE AND SCOPE: This item includes all tasks required to provide an accurate assessment of the environmental impacts of proposed transportation facilities. Major environmental issues include historic and archaeological resources, endangered species and other wildlife concerns, wetlands, social and economic impacts, including disproportionate impacts to minorities and low income communities, noise, air quality, water quality, and hazardous materials. Studies by in-house or contracted interdisciplinary specialists are conducted and form the basis of the subsequent assessment conducted in cooperation with FHWA. Based upon the nature of the proposed undertaking and likely magnitude of impacts, a decision is made regarding the appropriate level of NEPA review (Categorical Exclusion - CE, Environmental Assessment - EA, or Environmental Impact Assessment - EIS) required to adequately evaluate and document the environmental impacts of proposed projects. The input of appropriate state and federal agencies, Native American tribes, and other appropriate entities is solicited and a plan for public involvement is formulated and executed when necessary. The preparation of the necessary NEPA review documents is performed in-house or by consultants retained through contracts. Environmental oversight is also provided for state-funded projects, ranging from reviews of NEPA work undertaken by CIP consultants to in-house studies and documents. All draft documents are reviewed jointly by in-house coordinators and FHWA and finalized for presentation to the public and other review entities. Following all comments, the final documents are provided to FHWA for execution of appropriate concurrences, FONSI's or ROD's. Also included in this item is the processing of Section 404 and FEMA permits for state and local transportation projects, and the review of proposed right-of-way releases for consistency with environmental clearances.

ACCOMPLISHMENTS DURING FY 2003: The NEPA review process was completed for a total of 342 state and local transportation projects, including 338 projects processed as categorical exclusions and 4 as environmental assessments. Public involvement, including formal meetings and hearings as well as informal citizen/stakeholder meetings, was an important component of 24 completed projects. NEPA review is currently underway on another 30 projects. A major focus has been review, reevaluation and environmental clearance of projects included in the new 3/5 year state work plan to meet revised schedules. A total of 172 Phase I cultural resources studies were completed in-house, including consultation with SHPO and appropriate Tribal officials. Additional NRHP evaluation and mitigation work was completed or is in progress for 8 projects. Studies resulted in the identification and assessment of 6 historic structures and 10 archaeological sites. HABS/HAER Documentation was completed for 4 NRHP bridges, 2 of which have been relocated to new sites and 2 which have been made available for relocation. 220 Projects were reviewed for biological/wetlands impacts, including 10 with wetland impacts, 128 informal consultations for endangered species, including 14 projects requiring surveys for the American burying beetle. 149 Section 404 and 30 FEMA permits were processed. Initial site assessments and LUST reviews were completed for 162 projects. Preliminary Site Investigations for hazardous wastes were completed for 2 projects. 7 TMN noise studies were undertaken. Work continues on updating the Statewide archaeological inventory and reviewing utility permits on Department R/W for archaeological involvements and the development of programmatic agreements for ESA and Section 106 consultation are still in progress. The Interagency Agreement with the University of Oklahoma for biological studies was expanded and a full-time highway biologist position was established at the Oklahoma Biological Survey. Contracts are underway with four consulting firms to provide on-call environmental (NEPA) services

PROPOSED ACTIVITIES FOR FY 2004: Continue routine NEPA and environmental impact review of federal, state and local transportation projects. Continue work with SHPO and National Park Service on project to develop documentation and management plan for original Route 66 roadbed sections in Oklahoma. Continue to improve and expedite tribal consultation processes. The MOU with Seminole nation for protection of traditional plant resources is on hold pending federal recognition of the elected Seminole government. Initiate long term historic assessment/reassessment of all pre 1970 bridges in Oklahoma for completion in 2008. Continue to explore opportunities for establishment of wetland banks. Continue to improve coordination and consultation with USFWS regarding E/T species and development of creative consultation and mitigation measures. Execute programmatic agreement with FHWA for Section 106 and ESA consultation and develop program to assume these responsibilities for all FHWA-funded activities in Oklahoma. Continue interagency agreements for the University of Oklahoma biological studies and archeological reviews. Improve mechanisms for early coordination with FHWA and other federal land owning agencies in Oklahoma to streamline

NEPA process and document preparation. Coordinate contract services on 6 EA-level projects and several specialist reviews is proposed to aid in project delivery. Participate in workshops, conferences, and meetings to keep abreast of best practices and regulatory changes; where appropriate, assume leadership roles in work-related professional organizations and committees.

ESTIMATED TOTAL COST	CONTINUING	
Programmed Amount for FY 2003	\$ 1,113,000	(SPR)
	-0-	(State)
Estimated Cost for FY 2003	\$ 1,124,000	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 1,280,000	(SPR)
	-0-	(State)

**FEDERAL FISCAL YEAR 2004
OKLAHOMA PROJECT SPRY - 10(35) RS
Part 2**

	<u>PROGRAM</u>	<u>SPR</u>	<u>STATE</u>	<u>FHWA</u>	<u>TOTAL</u>
• 2100	Transportation Research Board	\$103,810.00	\$0.00		103,810.00
• 2102	Research Library Services	60,000.00	0.00		60,000.00
• 2115	Long Term Pavement Proformance (LTPP/SHRP)	25,000.00	0.00		25,000.00
• 2120	Technical Assistance - Special Studies	457,000.00	0.00		457,000.00
• 2122	I-40 Crosstown Case Study	120,000.00	0.00		120,000.00
• 2130	General Research Activity	400,000.00	0.00		400,000.00
• 2700	Experimental Product & Technology Evaluation Program	100,000.00	0.00		100,000.00
	Total General Activities	\$1,265,810.00	\$0.00	\$0.00	\$1,265,810.00
• 2146	The Development of Intelligent Soil Compaction	0.00	0.00		0.00
• 2156	Roadside Vegetation Management	136,000.00	0.00		136,000.00
• 2157	Herbicide Research Program	117,000.00	0.00		117,000.00
• 2158	Resilient Modulus Testing and Density Gradient Analysis / Asphalt Mixes	36,065.00	0.00		36,065.00
• 2160	Oklahoma Transportation Center	494,609.00	0.00		494,609.00
• 2161	Demonstation of a Non-Destructive Flexural Strength Test - Const. use	55,000.00	0.00		55,000.00
• 2167	Effect of Suction & Moisture on Resilient Modulus Of Subgrade Soils	60,000.00	0.00		60,000.00
• 2168	Scale effects of Oedometer Based Predictions of Fill Settlement	60,000.00	0.00		60,000.00
• 2169	Test Methods for Determination of Aggregate Specific Gravity	138,000.00	0.00		138,000.00
• 2172	Oklahoma's Percent Defective Quality Assurance / Quality Control	0.00	0.00		0.00
• 2174	Investigation of Patching Materials for PCC Pavements in OK	38,500.00	0.00		38,500.00
• 2175	Investigation Into the Use of PCC with Fiber Additives for Bridge Decks	49,300.00	0.00		49,300.00
• 2176	Investigation of Methods - Corrosion - Prestressed Concrete Bridge Girders	31,225.00	0.00		31,225.00
• 2177	Determination of Dynamic Modulus Master Curves- Hot Mix Asphalt	59,922.00	0.00		59,922.00
• 2440	LTAP	164,000.00	0.00		164,000.00
	Total Projects	\$1,439,621.00	\$0.00	\$0.00	\$1,439,621.00
	Total SPRY Projects and Studies 10(34) RS	\$2,705,431.00	\$0.00	\$0.00	\$2,705,431.00
	Total Pooled Fund Studies	\$908,522.00	\$0.00	\$0.00	\$908,522.00
	Grand Total	\$3,613,953.00	\$0.00	\$0.00	\$3,613,953.00

**FEDERAL FISCAL YEAR 2004
OKLAHOMA PROJECT SPRY - 10(36) RS
Part 2**

POOLED FUND PROJECTS

Project Number		Estimated ODOT Total Cost to Project	Estimated Duration of Project (Months)	Budget FY 2004	Federal Funds	State Funds
SPR-3(085)	Accelerated Loading Pavement Study (NCAT Track)	\$1,101,000	60	\$345,414.00	\$345,414.00	\$0
SPR-4(201)	NCHRP - FY 04	Continuing	Continuing	\$443,862.00	\$443,862.00	\$0
SPR-2(181)	National Vehicle Detector Test Center	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	
TPF-5(017)	WASHTO-X Videoconferencing Program	\$20,000	24	\$10,000.00	\$10,000.00	\$0
TPF-5(063)	Improving the Quality of Profiler Measurements	\$81,600	48	\$25,246.00	\$25,246.00	\$0
TPF-5(009)	AASHTO Snow and Ice Cooperative Program (SICOP)	Continuing	Continuing	\$4,000.00	\$4,000.00	\$0
TPF-5(009)	AASHTO Snow and Ice Cooperative Program (SICOP)	\$30,000	12	\$30,000.00	\$30,000.00	\$0
TPF-5(046)	Transportation Curriculum Council Training Management & Development	\$100,000	60	\$20,000.00	\$20,000.00	\$0
TPF-5(051)	Construction of Crack - Free Bridge Decks	\$60,000	36	\$20,000.00	\$20,000.00	\$0
TPF-5(068)	AASHTO - LT Maintenance of Load & Resistance Factor Design Spec.	\$40,000	48	\$0.00	\$0.00	\$0
Total Pooled Fund Studies		\$1,442,600		\$908,522.00	\$908,522.00	\$0

2100 Subscription to TRB

PURPOSE AND SCOPE: This project covers the annual subscription to the transportation Research Board to pay the cost of the Transportation Information Retrieval Service (TRIS) in providing ODOT with current reports and data from research studies in the highway and transportation field as gathered from federal, state, university or other sources.

ACCOMPLISHMENTS DURING FY 2003: Accessed TRIS database for information, receiving reports on studies conducted by the TRB, and utilizing other TRB services.

PROPOSED ACTIVITIES FOR FY 2004: Continue accessing TRIS database for information, receiving reports on studies conducted by the TRB, and utilizing other TRB services.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 98,000.	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 98,000.	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 103,810.	(SPR)
	-0-	(State)

PURPOSE AND SCOPE: Provide the Oklahoma Department of Transportation and customers with an information clearinghouse. The primary goals of this Technology Transfer Office are to provide a sound, progressive, flexible library available to ODOT personnel statewide and to keep them informed of recent innovations in transportation technology, methodologies and programs as soon as information becomes available. Aligning with this is the goal of providing proficient systematic searches of all resources when needed and knowing where to reference for the sought after information. Additional services are aimed at providing ODOT with competent editing and publishing capabilities to assist Planning & Research Division in generating and distributing quality reports and publications.

ACCOMPLISHMENTS DURING 2003: Successfully implemented tracking program to insure a higher percentage of responses to questionnaires and surveys received by the Planning & Research Division from other state and federal transportation agencies. Added Plat/Zoning Review duties to Library services. Refined Paradox software to run smoother and more efficiently with access and interaction by employees. Provided publications and miscellaneous information in response to numerous requests. Performed numerous information searches for various divisions and personnel within ODOT. Developed centralized Research project/cost database to give versatility in establishing overall view of research resource distribution.

PROPOSED ACTIVITIES FOR FY 2004: Continue to provide information services as before and expand services to include Research In Progress (RIP) database administration. Continue to develop software and application capabilities to enhance services and accessibility to Library by ODOT personnel. Maintain Research project/cost database to give versatility in establishing overall view of research resource distribution.

ESTIMATED TOTAL COST	CONTINUING
Programmed Amount for FY 2003	\$ 50,000 (SPR) \$ -0- (State)
Estimated Cost for FY 2003	\$ 58,000 (SPR) \$ -0- (State)
Estimated Cost for FY 2004	\$ 60,000 (SPR) \$ -0- (State)

2115..... LTPP/SHRP Long Term Pavement Performance

PURPOSE AND SCOPE: To maintain LTPP test sites and markings and current status, report maintenance activity to Southern Region Contract Office (SRCO), assist SRCO with data gathering as necessary, act as general liaison between SCRO and the Department. Maintain working knowledge related to SHRP produce implementation, act as general liaison between FHWA and the Department for product implementation activities.

ACCOMPLISHMENTS DURING FY 2003: Reported to SRCO about overlay at the Chickasha site, provided traffic control for SCRO at time of tour for fathering data, assisted Southern Region Contract Office (SRCO) in setting up Seasonal site at Ringwood.

PROPOSED ACTIVITIES FOR FY 2004: Continue monitoring of active sites in Oklahoma, maintain signing and markings for all active sites, report to Southern Region Contract Office (SRCO) other activities about maintenance of sites.

ESTIMATED TOTAL COST:	CONTINUING
Programmed Amount for FY 2003	\$ 25,000 (SPR) \$ - 0 - (STATE)
Estimated Cost for FY 2003	\$ 25,000 (SPR) \$ - 0 - (STATE)
Estimated Cost for FY 2004	\$ 25,000 (SPR) \$ - 0 - (STATE)

2120 Technical Assistance - Special Studies

PURPOSE AND SCOPE: This project was established to provide ongoing technical support, or special investigations to the Department when a full-scale project is not warranted, or when a “quick-turnaround” is required.

ACCOMPLISHMENTS DURING FY 2003: Coordinate the merging of Research Division into Planning and Research Division, consolidating personnel and equipment assets and integrating the management and supervision of technical assistance activities, including emerging research.

PROPOSED ACTIVITIES FOR FY 2004: Continue to support the Department with assistance and equipment in: core drilling, traffic control, special investigations, bridge deck testing and any other activities when needed.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 293,000	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 293,000	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 457,000.	(SPR)
	-0-	(State)

Purpose and Scope: Langston University is conducting research entitled "Interstate 40 Crosstown: A Case Study". The construction of the I-40 Crosstown Project will occur in a completely new and relocated location from the existing freeway. One of the results of this construction project will be the relocation of existing businesses and residences along the right-of-way areas of both the existing and the new roadway. The case study will investigate the perceptions of the citizens affected by residential or business relocation of the services provided by Coates Field Services, the representatives of the Department in acquisition and relocation of the owners and/or occupants of these residences and businesses.

Accomplishments During FY 2003: None

Proposed Activities for FY 2004: Administer contract and oversee phase I and II of the phased study.

Estimated Total Cost:	\$ 175,000	
Programmed Amount for FY 2003	-0-	(SPR)
	-0-	(State)
Estimated Cost for FY 2003	-0-	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 120,000	(SPR)
	-0-	(State)

2130 General Research Activity

PURPOSE AND SCOPE: This item number is intended to cover various research activities which are necessary for the operation of a research section but which cannot be accurately included in other projects. Examples of this type of activity include attending Quality Task force meetings, writing work plans for emerging research projects which have not been assigned an item number when the work plan is written, meeting with university and private researchers regarding proposed projects, attending industry seminars, conferences, etc.

ACCOMPLISHMENTS DURING FY 2003: N/A

PROPOSED ACTIVITIES FOR FY 2004: Develop work plans, attend Asphalt, PCC and Bridge Quality Improvement Task Force meetings, meet with researchers on proposed research, and develop emerging research.

ESTIMATED TOTAL COST:	CONTINUING	
PROGRAMMED AMOUNT FOR FY 2003:	N/A	
ESTIMATED COST FOR FY 2003:	N/A	
ESTIMATED COST FOR FY 2004:	\$ 400,000	(SPR)
	-0-	(State)

2146..... **The Development of Intelligent Soil Compaction**

PURPOSE AND SCOPE: The purpose of this project is to develop and implement intelligence into vibratory soil compaction by establishing communication between the compactor and the material being compacted.

ACCOMPLISHMENTS DURING FY 2003: The Final Report has been completed and reviewed. This project will be completed as soon as modifications recommended in the review are made. The project will be closed out when the corrected Final Report is received from the Principal Investigator.

PROPOSED ACTIVITIES FOR FY 2004: N/A Project complete.

ESTIMATED TOTAL COST:	\$ 294,141.
Programmed Amount for FY 2003	\$ 50,000. (SPR) -0- (State)
Estimated cost for FY 2003	\$ -0- (SPR) -0- (State)
Estimated Cost for FY 2004	\$ -0- (SPR) -0- (State)

PURPOSE AND SCOPE: The purpose of this project is to provide ODOT with certified training related to Roadside Vegetation Management (RVM), consultation to ODOT field divisions, and development of manuals of practice for ODOT using the services of Oklahoma State University.

ACCOMPLISHMENTS DURING FY 2003: Provided as - needed consultations (5 - 10 per month) with ODOT maintenance personnel regarding herbicide applications and other RVM issues. Conducted Certified Pesticide Applicator Training workshops for ODOT personnel and maintained mandated records. Conducted annual survey of RVM equipment covering all ODOT maintenance locations. Conducted implementation tour of test plots for ODOT maintenance personnel. Produced annual Equipment, Herbicide, and Consultation reports.

PROPOSED ACTIVITIES FOR FY 2004: Continue training, field surveys and consultations as described above. Produce annual Equipment, Consultation and Herbicide Reports.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 130,000.	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 120,000.	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 136,000.	(SPR)
	-0-	(State)

2157 **Herbicide Research Program**

PURPOSE AND SCOPE: The purpose of this project is to conduct field investigations which evaluate herbicide products, applications and equipment using services provided by Oklahoma State University.

ACCOMPLISHMENTS DURING FY 2003: Completed evaluations of herbicides and other measures for control of Sericea Lespedeza, Johnson grass, Annual Regress, and broadleaf weed control. Produced reports on each application. Conducted implementation tour of test plots for ODOT personnel.

PROPOSED ACTIVITIES FOR FY 2004: Continue testing herbicides for applications selected by the Project Panel. Report on all herbicide applications during annual panel meeting in February 2004. Produce written reports on herbicide applications (one report per application category), with conclusions and recommendations.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 90,000.	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 100,000.	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 117,000.	(SPR)
	-0-	(State)

2158 Resilient Modulus Testing and Density Gradient Analysis of Selected Asphalt Mixes

PURPOSE AND SCOPE: The purpose of this project is to: 1) Explore the relationship(s) between resilient modulus and rutting as measured by the Asphalt Pavement Analyzer (APA), and (2) Examine the density distribution in Hot Mix Asphalt (HMA) specimens, prepared using the Superpave Gyrotory Compactor (SGC).

ACCOMPLISHMENTS DURING FY 2003: Completed resilient modulus and rut testing and analysis. Correlated rut to resilient modulus and other factors. Completed Density Gradient testing and analysis. Preparation of Final Report has begun and is expected to be completed by September 30, 2003.

PROPOSED ACTIVITIES FOR FY 2004: Review Draft Final Report and publish corrected copy. When published copies are received, the project will be finalized.

ESTIMATED TOTAL COST:	\$ 101,522
Programmed Amount for FY 2003	\$ 51,522. (SPR) -0- (State)
Estimated cost for FY 2003	\$ 51,522. (SPR) -0- (State)
Estimated Cost for FY 2004	\$ 36,065 (SPR) -0- (State)

PURPOSE AND SCOPE: The Oklahoma Transportation Center (OTC) is a research organization made up of researchers employed by The University of Oklahoma (OU) and Oklahoma State University (OSU). Research personnel in this organization have expertise and research covering a wide range of transportation - related topics. The purpose of this project is to Provide ODOT with a means of contracting research work covering a wide range transportation research projects.

ACCOMPLISHMENTS DURING FY 2003: Contracted with the OTC for the following projects (titles shortened): Permanent metal Bridge Decking, Impacts of Highway Construction, Timber Pile Repair, Analysis of Basic Pavement Behavior, 24/7 Monitoring of Work Zones, Subsurface Imaging for detecting cavities, A Prioritizing Method for Scour-Critical Culverts, An Alternative Method for Determining Asphalt Content, Development of a Freight Movement Model, Evaluation of the PCC Additive "Ipanex", Evaluation of Stainless Steel-Clad Reinforcing Steel, Surface Free Energy of Hot Mix Asphalt Mixes.

PROPOSED ACTIVITIES FOR FY 2004: Contract with and oversee the OTC for research projects to extend or fund.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 400,000.	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 400,000.	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 494,609.	(SPR)
	-0-	(State)

2161 Demonstration of a Non - Destructive Flexural Strength Test for Use During Construction

PURPOSE AND SCOPE: The purpose of this project is to demonstrate an effective non - destructive means of verifying flexural strengths for concrete pavements during construction. Two technological innovations will be used: 1) German Instruments' BOND TEST direct tensile test equipment and 2) An innovative concrete maturity system developed and manufactured in Oklahoma by Nomadics, Inc., Stillwater, Oklahoma.

This project will perform the innovative test procedures and demonstrate the relationship between flexural and direct tensile strengths by performing both tests at the same time and with the same test specimens. Indirect measures of tensile strength will be performed using LOK - TEST embedded inserts to determine whether or not the LOK - TEST Method can be used to reliably measure flexural strength.

ACCOMPLISHMENTS FOR FY 2003: N/A

PROPOSED ACTIVITIES FOR FY 2004: Contract for and perform oversight on approved research.

ESTIMATED TOTAL COST:	\$ 55,000.	
Programmed amounts for FY 2003:	N/A	
Estimated cost for FY 2003:	N/A	
Estimated cost for FY 2004:	\$ 55,000	(SPR)
	-0-	(State)

2167 Effect of Suction and Moisture on Resilient Modulus of Subgrade Soils in Oklahoma

PURPOSE AND SCOPE: The purpose of this project is to generate data and recommendations which will benefit ODOT in design of pavements on unsaturated subgrades. Subgrade moisture plays an important role in the in-service performance of a pavement. Resilient Modulus (MR) is an important parameter in pavement design under AASHTO guidelines, which ODOT has implemented.

ACCOMPLISHMENTS DURING FY 2003: N/A

PROPOSED ACTIVITIES FOR FY 2004: Contract for and perform oversight on approved research.

ESTIMATED TOTAL COST:	\$ 105,242.	
Programmed Amount for FY 2003:	\$ -0-	
Estimated cost for FY 2003:	\$ -0-	
Estimated Cost for FY 2004:	\$ 60,000.	(SPR)
	-0-	(State)

2168 Scale Effects in Oedometer-Based Predictions of Fill Settlement

PURPOSE AND SCOPE: This project will use both the large and small oedometer test procedures to predict settlement behavior of compacted Oklahoma soils in embankments. The project activities will also include examining scale effects associated with using oedometer samples and examine fabric-induced scale effects in the field. Recommendations regarding laboratory and settlement analysis of compacted fills will be included.

ACCOMPLISHMENTS DURING FY 2003: N/A

PROPOSED ACTIVITIES FOR FY 2004: Contract for and perform oversight on approved research.

ESTIMATED TOTAL COST:	\$ 122,000.	
Programmed Amount for FY 2003	\$ -0-	
Estimated cost for FY 2003	\$ -0-	
Estimated Cost for FY 2004	\$ 60,000.	(SPR)
	-0-	(State)

2169 Evaluation of Test Methods for Determination of Aggregate Specific Gravity

PURPOSE AND SCOPE: The purpose of this project is to evaluate the AggPlus and Saturated Surface Dry (SSD) aggregate test systems against the currently used AASHTO T - 84 and T - 85. All of these tests are used for determination of bulk specific Gravity and Percent absorption of coarse and fine

ACCOMPLISHMENTS DURING FY 2003: NA

PROPOSED ACTIVITIES FOR FY 2004: Contract for and perform oversight on approved research.

ESTIMATED TOTAL COST:	\$ 138,000	
Programmed Amount for FY 2003:	N/A	
Estimated cost for FY 2003:	N/A	
Programmed Amount for FY2004:	\$ 138,000	(SPR)
	-0-	(State)

2172 Oklahoma's Percent Defective Quality Assurance/ Quality Control Specifications

PURPOSE AND SCOPE: In 1996, ODOT drafted a set of special provisions to address the quality assurance (QC/QA) of construction using "percent within limits (PWL) specifications. These specifications have never been implemented by ODOT. However, in 1998, the Oklahoma Turnpike Authority (OTA) adopted the asphalt concrete (AC) and Portland Cement Concrete (PCC) portions of these specifications. The study addresses the following objectives: Provide a means for an objective assessment by ODOT of PWL specifications, investigate alternatives for dealing with quality characteristics having non-normal distributions, investigate alternatives for limiting Contractor exposure under PWL specifications due to variability in test methods and procedures, identify suitable adjustments to PWL specifications limits for various quality characteristics, and provide guidelines and recommendations concerning statistical methods for quality assurance testing.

ACCOMPLISHMENTS DURING FY 2003: The study was completed, the Final Report was delivered to ODOT, and the objectives listed above were met. The project was finalized out.

PROPOSED ACTIVITIES FOR FY 2004: N/A - Project has been completed

ESTIMATED TOTAL COST:	\$ 94,000.	
Programmed Amount for FY 2003:	\$ 87,000	(SPR)
	-0-	(State)
Estimated cost for FY 2003:	\$ 94,000	(SPR)
	-0-	(State)
Estimated Cost for FY 2004:	\$ -0-	

2174..... Investigation of Patching Materials for Portland Cement Concrete (PCC)
Pavements in the State of Oklahoma

PURPOSE AND SCOPE: ODOT maintenance personnel have long had an interest in identifying PCC patch materials which can demonstrate superior performance. This project will identify materials and procedures which can be reliably employed to patch and repair PCC roadways and bridge applications. The project will also evaluate and define the material properties of the most promising materials and make recommendations as to their use. The work will include testing (at least) eight commonly used patch materials with regard to compressive strength, bond strength, elasticity and permeability. A Final Report summarizing the work and results will be submitted and the results presented in a seminar for interested ODOT personnel.

ACCOMPLISHMENTS DURING FY 2003: N/A

PROPOSED ACTIVITIES FOR FY 2004: Contract for and perform oversight on approved research.

ESTIMATED TOTAL COST:	\$ 38,500.	
Programmed Amount for FY 2003	\$ N/A	
Estimated cost for FY 2003	\$ N/A	
Estimated Cost for FY 2004	\$ 38,500.	(SPR)
	-0-	(State)

2175 **Investigation Into the Use of Portland Cement Concrete (PCC) with Fiber Additives for Bridge Decks in the State of Oklahoma**

PURPOSE AND SCOPE: Fiber additives can produce desirable properties in PCC bridge decks and overlays. The addition of fibers to PCC mixes has been reported to improve crack control, increase impact capacity, reduce permeability, increase shatter resistance, increase abrasion resistance, and improve flexural capacity.

The purpose of this project is to identify materials and procedures that can be reliably used in the field for bridge deck applications that will ensure satisfactory performance.

The project will conduct a laboratory testing program which will (1) identify materials and procedures which can be reliably used in bridge deck applications, and (2) evaluate and define the material properties of the most promising materials. A Final Report detailing the research activity and its' results will be published.

ACCOMPLISHMENTS DURING FY 2003: N/A

PROPOSED ACTIVITIES FOR FY 2004: Contract for and perform oversight on approved research.

ESTIMATED TOTAL COST:	\$ 49,300.	
Programmed Amount for FY 2003	\$ NA (New project)	
Estimated cost for FY 2003	\$ NA	
Estimated Cost for FY 2004	\$ 49,300.	(SPR)
	-0-	(State)

2176 Investigation of Methods to Reduce or Eliminate End Region Corrosion of Prestressed Concrete Bridge Girders

PURPOSE AND SCOPE: ODOT has experienced problems with corrosion in the end region of several prestressed concrete bridge girders. Prestressing strands will not corrode or rust unless they are exposed to moisture and oxygen. The purpose of this project is to determine if surface treatments applied to the end regions of prestressed concrete bridge girders can prevent moisture from reaching the prestressing strands and decrease the amount of corrosion that occurs. This may be accomplished by several means. Waterproofing materials may be applied to the concrete to decrease its permeability, or physical barriers may be applied to the outside of the girder to cover the strand and end region. This study will compare the effects of silane waterproofing, at least two types of epoxy, an elastomeric compound, and grouting. A Final Report detailing the research activity and its' results will be published.

ACCOMPLISHMENTS DURING FY 2003: N/A

PROPOSED ACTIVITIES FOR FY 2004: Contract for and perform oversite on approved research.

ESTIMATED TOTAL COST:	\$ 31,225.	
Programmed Amount for FY 2003	\$ N/A	
Estimated cost for FY 2003	\$ N/A	
Estimated Cost for FY 2004	\$ 31,225.	(SPR)
	-0-	(State)

2177 **Determination of Dynamic Modulus Master Curves for Oklahoma Hot Mix Asphalt (HMA) Mixtures**

PURPOSE AND SCOPE: The currently used “1993 NCHRP HMA Design Guide for Asphalt Mixtures” assigns asphalt mixtures an “a” coefficient based on resilient modulus. The 2002 Design Guide uses the elastic properties of dynamic modulus and Poisson’s Ratio as the materials characterization parameters for asphalt mixtures (ASTM 3496 - 7). Detailed analysis is required to arrive at these properties. Time and other constraints often make it difficult or impossible to do the detailed analysis.

The purpose of this research is to develop a procedure where ODOT can approach level 1 reliability for HMA design using master curves from which the design parameters can be obtained without performing detailed dynamic modulus testing for each mix in a pavement system.

ACCOMPLISHMENTS DURING FY 2003: N/A (New Project)

PROPOSED ACTIVITIES FOR FY 2004: Contract for and perform oversight on approved research.

ESTIMATED TOTAL COST:	\$ 136,767.	
Programmed Amount for FY 2003	\$ N/A (New project)	
Estimated cost for FY 2003	\$ N/A	
Estimated Cost for FY 2004	\$ 59,922.	(SPR)
	-0-	(State)

2440 Local Technical Assistance Program

PURPOSE AND SCOPE: The Local Technical Assistance Program (LTAP) is a training program contracted by Oklahoma State University's Center for Local Government Technology to provide technical maintenance training and assistance to Oklahoma's county personnel in the areas of road and bridge construction, repair and maintenance and other transportation-related issues. This is accomplished by 1) conducting workshops, seminars and other training opportunities, 2) providing on-site technical assistance, 3) maintaining a lending library for publications, video-tapes and other technology resource documents, 4) providing information on new and existing technology, 5) coordinating with faculty and staff at OSU and ODOT to provide technical expertise and support, 6) publishing a quarterly newsletter and 7) maintaining a database of rural, local and state transportation officials and other resources in Oklahoma and nationwide.

ACCOMPLISHMENTS DURING FY 2003: The LTAP Program established a positive relationship with Circuit Engineering District #7 in Clinton (part of the Association of County Commissioners of Oklahoma) resulting in increased participation of county personnel from the western part of the state in the Roads Scholar Program. Twenty four (24) Roads Scholar classes and four (4) County Welding Training classes were conducted with 832 and 48 county personnel attending respectively. The first Oklahoma LTAP Web Site has been developed and expected to be posted in August, 2003. LTAP office continues to serve as the American Public Works Association State Chapter office and assisted with the April 2003 regional meeting. Newsletters were published and various literature and video tapes of new ideas and procedures were distributed.

PROPOSED ACTIVITIES FOR FY 2004: Oversee the agreement for LTAP, which will conduct at least four training sessions of all the nine Roads Scholar Program subjects statewide, continue to publish and distribute to county commissioners various newsletters, papers, technical literature and video through the LTAP Library and coordinate with ODOT's Technical Library and will develop and conduct new training courses as requested by the LTAP Advisory Board.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 145,000	(SPR)
	\$ -0-	(STATE)
	\$ 125,000	(FHWA)
Estimated Cost for FY 2003	\$ 162,000	(SPR)
	\$ -0-	(STATE)
	\$ 127,500	(FHWA)
Estimated Cost for FY 2004	\$ 164,000	(SPR)
	\$ -0-	(STATE)
	\$ 127,500	(FHWA)

2700 Experimental Product and Technology Evaluation Program

PURPOSE AND SCOPE: This project was established to provide ODOT with a mechanism that provides for the use, monitoring and implementation of highway and bridge construction and maintenance products that do not meet current ODOT standards or specifications.

ACCOMPLISHMENTS DURING FY 2003: Maintained database of new products where manufacturer provided literature or made a presentation during the last five years. Met with company representatives presenting new products. Provided information on products to applicable ODOT Divisions. Evaluated new products as required.

PROPOSED ACTIVITIES FOR FY 2004: Continue maintaining database on products submitted to ODOT. Meet with vendors representatives, circulate product literature and conduct product and technology evaluations as required. Also in FY 2004 (possibly during the last two months of 2003) a "New Products Evaluation Committee" will be organized to determine which new product submittals will be evaluated, what the evaluation will consist of and track the evaluation results. Evaluate LIDAR new technology for the I-40 / Fort Smith Interchange in Oklahoma City.

ESTIMATED TOTAL COST:	CONTINUING	
Programmed Amount for FY 2003	\$ 25,000.	(SPR)
	-0-	(State)
Estimated cost for FY 2003	\$ 25,000.	(SPR)
	-0-	(State)
Estimated Cost for FY 2004	\$ 100,000.	(SPR)
	-0-	(State)

