

RESOLUTION NO. 34-1984

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ABILENE, TEXAS, APPROVING THE 1984-85 UNIFIED PLANNING WORK PROGRAM FOR TRANSPORTATION PLANNING.

WHEREAS, the City of Abilene as designated Metropolitan Planning Organization is responsible for coordinating and documenting all transportation planning activities in the Abilene Urbanized Area; and

WHEREAS, the City of Abilene proposes to undertake several transportation planning tasks for which U.S. Department of Transportation funding will be used; and

WHEREAS, the City of Abilene has determined that these planning tasks are essential to the orderly growth and development of a safe and efficient transportation system; now, therefore,

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ABILENE, TEXAS:

PART I: That the 1984-85 Unified Planning Work Program attached as Exhibit "A" is hereby approved; and

PART II: That staff is authorized to submit said Unified Planning Work Program to the U.S. Department of Transportation for their approval; and

PART III: That this resolution shall take effect immediately from and after its passage.

PASSED this 14 day of June, 1984.

ATTEST:

Shirley Pallas
City Secretary

David Stubbeman
Mayor

APPROVED:

Rayney Layzell
City Attorney

RESOLUTION NO. 34-1984

EXHIBIT "A"

UNIFIED PLANNING WORK PROGRAM

UNIFIED PLANNING WORK PROGRAM

For

FY 1984-1985

October 1, 1984 through September 30, 1985

A part of the Continuing, cooperative, and comprehensive multi-modal transportation planning process for the Abilene Urbanized Area

Acknowledgement: This document was prepared by the Planning and Development Department of the City of Abilene, Texas as the designated Metropolitan Planning Organization.

Agency Review: This document has been submitted to the West Central Texas Council of Governments for local A-95 review and to the Governor's Office of Budget and Planning for State Clearinghouse Review.

Approval: This work program was approved by the MPO Policy Board on June , 1984, and the City Council of the City of Abilene on June , 1984.

UNIFIED PLANNING WORK PROGRAM

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INTRODUCTION

The Unified Planning Work Program (UPWP) provides descriptive and scheduling details for work undertaken in pursuit of the Abilene Urban Transportation Study process for Fiscal Year 1984-85.

This year, for the first time in several years, the UPWP format has been significantly altered. These format changes have been made in an attempt to simplify local, state and federal review of the program and to eliminate duplication with other planning process documentation prepared for other purposes. The UPWP has been prepared in accordance with U.S. Department of Transportation guidelines and with the assistance of State and Local agencies. Detail of the study's organizational structure and objectives may be found in the prospectus.

This UPWP will serve as the base document for the fiscal year 1984-85. All elements described will further the goals of the 3C transportation planning process. The document is divided into the following elements:

Work Task Details: These are summary descriptions of each proposed task including a brief project description, a review of previous related work, a description of the anticipated finished product and identification of the responsible agency/entity. The summary description format is different from that previously used and it is felt to be consistent with the goal of facilitating other agency reviews.

Proposed Timetables: The proposed timetables represent the anticipated project initiation and completion periods for all of the work tasks covered by this UPWP. Obviously these are estimates and may be subject to adjustments as the year proceeds. It is, however, the MPO's goal to adhere to these timetables as closely as possible to ensure timely completion of the UPWP tasks.

Funding Summary Tables: The funding summary tables provide a concise description of funding source for each task and subtask and also describe the funding recipient by source of funds. These items are provided for quick reference and have been arranged in a format that will convey the necessary information completely and clearly.

In conclusion, the UPWP has been developed as a cooperative venture between the Metropolitan Planning Organization (City of Abilene) and the State Department of Highways and Public Transportation. Upon submission it will have been approved by the City Council of the City of Abilene, Texas, and the MPO policy group. It will be submitted simultaneously to the West Central Texas Council of Governments for their review and to the Governor's Office of Budget and Planning for their review. Any subsequent changes or modifications to the UPWP will be subject to the same processes.

WORK TASK DETAILS

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TASK INDEX

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1.0 Transportation System Data Collection and Maintenance

Funding Source: FHWA

Amount of Funds: \$30,000

Objectives:

To collect and maintain data for all aspects of the transportation system in order to determine locational and timing adjustments to any component of the system leading to more effective utilization of transportation facilities and modes.

Previous Work:

A continuing traffic count program, involving machine counts at approximately 600 intersections, is in effect in the City of Abilene. This is coordinated with the count program maintained by the state. Turning movements are counted at approximately 140 locations biannually; movements at 50 of these locations are counted annually. Vehicular speeds on arterials are monitored to ensure that speed limits and signal progression timing are appropriate for conditions. Traffic accident data is maintained on file and in the form of a location, or "pin", map. Collision diagrams and relevant data are maintained for all signalized intersections and other locations of high accident frequency.

Proposed Work:

Data collection necessary for all phases of engineering and statistical analysis of transportation network, facilities and modes. These collection and analytical operations include:

- 1.1 Manual turning movement and vehicle classification counts will be made at approximately 60 locations.
- 1.2 Nondirectional machine traffic counts will be made at approximately 250 locations. Directional speed studies at approximately 100 locations will be made.
- 1.3 Vehicle accident analysis and locations will be maintained on file and on a pin map.
- 1.4 Collision diagrams and analysis for signalized intersections and other high accident frequency locations. Recording change in accident rates at upgraded intersections is part of the analysis.
- 1.5 Miscellaneous transportation data will be collected as needs are perceived. All statistical and engineering data will be developed and analyzed.
- 1.6 Recommendations for improvements to the overall transportation network.

Responsibility:

The City of Abilene will be responsible for the proposed work with the Director of Traffic and Transportation being the project director.

Products:

The results of proposed work include:

- An annual update to the City's official traffic count map and updated files on turning movement and vehicle classification data
- Updated files on arterial street operating needs
- An annual update to traffic accident files and recommended remedial action for high accident location -- An analysis of the effects of intersection improvements on accident rates is part of this project.
- An annual re-evaluation of the overall operations of the Abilene Urban Transportation System

2.0 Continuing Transportation Planning

Funding Source: \$35,000 SDHPT, \$15,000 Local

Objective: To provide for the continuing review and appraisal of the Abilene Urban Transportation Plan.

Previous Work: An annual update of the transportation plan was completed in previous years.

Proposed Work: The following work elements will be accomplished to complete the 1984-85 Annual Review:

- 2.1 Data Maintenance--Gather and maintain significant data on each of the Plan elements as defined by the continuing phase agreement.
- 2.2 Review Forecasts--This element includes the comparison of forecasts to measured conditions in order to permit early identification of conditions which might require deviations from or modifications to the plan.
- 2.3 Consider Plan Modifications--Should conditions warrant, modifications to the Plan would be formulated and recommended for consideration/adoption by the appropriate agency.
- 2.4 Coordination with Other Elements of the Transportation Planning Process--Modifications of the plan will be evaluated to determine their appropriateness and consistency with the Transportation Systems Management Element, Transportation Improvement Plan and Annual Element. Where necessary, these modifications will be incorporated into these elements as part of a continuing process of refining and developing the Plan, TSME, TIP, and AE. A continuous re-evaluation of all elements will be accomplished.
- 2.5 Determination of Consistency with Other Special Concerns--The Plan, its modifications, and all other elements will be reviewed to determine their consistency with air quality planning, Title VI and State assurances, public transportation services for elderly and handicapped, energy conservation, and other social and environmental factors. Where indicated by this review, the Plan will be modified to ensure compliance and effectiveness in dealing with these concerns. (Detailed descriptions of this process are included in the Prospectus.)
- 2.6 Planning for the Elderly and Handicapped--The programs developed for elderly and handicapped in the Transit Development Program will be

continuously monitored to ascertain their appropriateness and effectiveness in meeting the needs of this special group. Where additional actions or programming are indicated, programs to develop and implement them will be initiated.

Responsibility: The responsibility for completion of each task, and subtasks thereof, is defined in the existing continuing phase agreement between the City of Abilene and the State Department of Highways and Public Transportation. Performance of tasks will be accomplished by the staffs of the two agencies.

Coordination: The Planning Coordinator, on the staff of the District Office of the State Department of Highways and Public Transportation, will coordinate activities 1-4 and certain parts of 6. The MPO Coordinator, on the City of Abilene staff, will coordinate activities 5, parts of 6 and 7.

Products: (1) An updated source of data for use in further transportation planning/decision-making, (2) updated and refined TIP and AE, and (3) various plans, programs, or modifications to existing programs for the elderly and handicapped.

3.0 Transportation Planning Operations Audit

Funding Source: FHWA

Amount of Funds: \$800

Objectives: To perform an examination of accounts and financial records in relation to transportation planning activities during fiscal year 1983.

Previous Work: Auditing of all City financial records is generally done annually. Specific transportation program audits have been done periodically.

Proposed Work: 3.1 Investigate accounts with regard to task performance and expenditures.

3.2 Recommendations for future financial management of funds used to facilitate transportation planning in the City of Abilene.

Responsibility: The Director of Finance will be project director.

Products: An audit of the City's transportation related funding accounts will be produced.

4.0 Transit System Data Collection and Analysis

Funding Source: UMTA

Amount of Funds: \$3,000

Objectives: To collect and analyze transit system data. This will include socio-economic characteristics of transit system users for the development and targeting of marketing programs to increase transit system utilization and ridership surveys to assist route and schedule decision making.

Previous Work: A market analysis program was performed in the Spring of 1982 and in the Spring of 1984.

Proposed Work:

- 4.1 Develop necessary questionnaires and data collection forms and structure and data collection program.
- 4.2 Collect transit system data.
- 4.3 Analyze collected data in light of previous data and census data.
- 4.4 Develop marketing program.
- 4.5 Make route and schedule adjustment decisions.

Responsibility: The City of Abilene will be responsible for the proposed work with the Director of Traffic and Transportation being the project director.

Products:

- The results of the proposed work include:
- Updated transit user data.
- A marketing strategy and program for the year.
- Transit routes and schedules responsive to user needs.

5.0 Thoroughfare and Collector Plan Update

Funding Source: FHWA

Amount of Funds: \$26,000

Objectives:

To re-evaluate the Thoroughfare and Collector Plan of 1978 and formulate a revised plan based on proposed developments, and existing development, as well as existing street network in Abilene urban area. This work will be compatible with the Level III update.

Previous Work:

The Thoroughfare and Collector Plan was produced in 1978 by the Planning and Community Development Department.

The plan consists of a map and an accompanying text. The map shows proposed locations for expressways, arterials, and collectors, as well as those streets which are presently functioning as thoroughfares or collectors. The text suggests design standards for streets, explains the considerations determining proposed street locations, examines some of the main features of the thoroughfare and collector system, and discusses means of implementing the plan.

Some minor adjustments to the plan were made in FY 83-84 under provisions of the UPWP for selected growth areas. However, as a result of staffing shortfalls, the full scope of the program has been deferred to the period covered by this UPWP.

- 5.1 Revise map to illustrate new streets and related improvements installed since 1978.
- 5.2 Evaluate need for and location of proposed arterial streets.
- 5.3 Evaluate proposed locations of collector streets in now-undeveloped areas, in light of:
 - Small area land use plan recommendations formulated since 1978,
 - More specific data on floodway boundaries,
- 5.4 Consider changes in designation of arterial and collector streets within existing street network, to reflect actual conditions.
- 5.5 Designate appropriate width of street pavement and/or right-of-way for both existing and proposed arterial streets.
- 5.6 Consider designation of subcollector alignments within existing street network.

Responsibility: The City of Abilene is responsible for this task.
The Director of Planning and Development is project
director.

Product: An updated and revised Thoroughfare and Collector
Plan with accompanying maps will be produced.

6.0 Serial Zone Land Use Projections

Funding Source: FHWA

Amount of Funds: \$5,200

Objectives: In order to accurately predict future transportation system needs and to assess existing network capacities, the computerized trip generation models used by SDEPT require accurate land use estimates for serial zones. The purpose of this task is to prepare land use forecasts by serial zone for a five year and 20 year period.

Previous Work: Existing land use by serial zone was updated in 1980-81. However, no forecasts were made at that time.

Proposed Work:

- 6.1 Existing land use will be evaluated to ascertain changes since 1980-81.
- 6.2 Five year forecasts will be prepared based on the analysis in 6.1 and with use of the City's computerized land use system.
- 6.3 Twenty year forecasts will be prepared using the City's computerized land use system and the analyses in 6.1 and 6.2.

Responsibility: The City of Abilene is responsible for this task. The Director of Planning and Development is project director.

Product: A complete set of land use forecasts at five and twenty year intervals for every serial zone in the study area.

TASK TIMETABLES

TASK TIMETABLES

(By Quarterly Periods)

TASK	Quarter (FY)			
	I	II	III	IV
1.0 Transportation System Data Collection & Maintenance				
1.1	*	*	*	*
1.2	*			
1.3	*			
1.4	*	*	*	*
1.5			*	*
1.6			*	*
2.0 Continuing Transportation Planning				
2.1				
2.2				
2.3				
2.4				
2.5				
2.6				
3.0 Transportation Planning Operations Audit				
3.1	*	*	*	*
3.2				*
4.0 Transit System Data Collection & Analysis				
4.1	*	*	*	*
4.2			*	*
4.3			*	*
4.4			*	*
4.5			*	*

Ongoing Work

TASK	Quarter (FY)			
	I	II	III	IV
5.0 Thoroughfare & Collector Plan Update				
5.1	*	*		
5.2	*	*	*	*
5.3		*	*	*
5.4		*	*	*
5.5		*	*	*
5.6				*
6.0 Serial Zone Land Use Projections				
6.1			*	*
6.2			*	*
6.3			*	*

FUNDING SUMMARIES

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PROPOSED FUNDING SOURCES

Task	FHWA	SDHPT	Local	UMTA	Local	Other	Federal	Total
1.0 Transportation System Data Collection								
1.1 Manual Turning Movement & Vehicle Classification Counts	\$ 6,000	-	-	-	-	-	\$ 6,000	-
1.2 Directional & Non-Directional Machine Counts	6,000	-	-	-	-	-	6,000	-
1.3 Maintain Accident Analysis File	4,000	-	-	-	-	-	4,000	-
1.4 Prepare Collision Diagrams & Analyze High Frequency Accident Locations	4,000	-	-	-	-	-	4,000	-
1.5 Miscellaneous Transportation Data Analysis Recommendations	6,000	-	-	-	-	-	6,000	-
1.6 Recommendations	4,000	-	-	-	-	-	4,000	-
SUBTOTAL	\$30,000	-	-	-	-	-	\$ 30,000	-
2.0 Continuing Transportation Planning								
2.1 Data Maintenance	\$ 2,500	\$ 3,500	-	-	-	-	\$ 2,500	\$ 3,500
2.2 Review Forecasts	-	19,000	-	-	-	-	19,000	4,500
2.3 Consider Plan Modifications	-	11,000	-	-	-	-	11,000	7,000
2.4 Coordinate with Other Elements	-	1,000	-	-	-	-	1,000	-
2.5 Other Special Elements	-	1,000	-	-	-	-	1,000	-
2.6 Elderly & Handicapped	-	1,000	-	-	-	-	1,000	-
SUBTOTAL	-	\$35,500	\$15,000	-	-	-	\$ 35,500	\$15,000
Total								
Total SLS								

Task	FHWA	SDHPT	Local	UMTA	Local	Other	Federal	Total SLS
3.0 Transportation Operations Audit								
3.1 Investigate Accounts	\$ 400	-	-	-	-	-	\$ 400	-
3.2 Recommendations	400	-	-	-	-	-	400	-
SUBTOTAL	\$ 800	-	-	-	-	-	800	-
4.0 Transit System Data Collection & Analysis								
4.1 Develop Questionnaire & Data Forms	-	-	-	\$ 500	-	-	\$ 500	-
4.2 Collect Transit Data	-	-	-	1,000	-	-	1,000	-
4.3 Analyze Data	-	-	-	700	-	-	700	-
4.4 Develop Marketing Program	-	-	-	700	-	-	700	-
4.5 Route & Schedule Decisions	-	-	-	100	-	-	100	-
SUBTOTAL	-	-	-	\$3,000	-	-	\$ 3,000	-
5.0 Thoroughfare and Collector Plan								
5.1 Update Map to Illustrate Recent Improvement	\$ 2,000	-	-	-	-	-	\$ 2,000	-
5.2 Evaluate Needs & Locations of Proposed Arterials	-	-	-	-	-	-	-	-
5.3 Evaluate Collector Locations in Undeveloped Areas	-	-	-	-	-	-	-	-
5.4 Consider Changes in Arterial & Collector Designations	-	-	-	-	-	-	-	-
5.5 Establish Pavement Widths & R.O.W.	-	-	-	-	-	-	-	-
5.6 Designate Subcollectors	-	-	-	-	-	-	-	-
5.7 Produce Plan Document	6,000	-	-	-	-	-	6,000	-
SUBTOTAL	\$26,000	-	-	-	-	-	\$ 26,000	-

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Task

6.0

Serial Zone Land Use

Projections

6.1 Evaluate Existing Land

Use

6.2 Five-Year Forecasts

6.3 Ten-Year Forecasts

SUBTOTAL

\$ 5,200

2,000

2,000

\$ 1,200

FHWA

SDHPT

Local

UMTA

Local

Other

Total
Federal

Total
SLS

GRAND TOTAL

\$62,000

\$35,500

\$15,000

\$3,000

-

-

\$100,500

\$15,000

PROPOSED EXPENDITURES
OF

FUNDS BY TASK

<u>Task</u>	<u>SDHPT</u>	<u>City of Abilene</u>	<u>Consultant Service</u>	<u>Total</u>
1.0 Transportation System Data Collection				
1.1 Manual Turning Movement & Vehicle Classification Counts	-	\$ 6,000	-	\$ 6,000
1.2 Directional & Non-Directional Machine Counts	-	6,000 4,000	-	6,000 6,000
1.3 Maintain Accident Analysis File	-	4,000	-	4,000
1.4 Prepare Collision Diagrams & Analyze High Frequency Accident Locations	-	6,000 30,000	-	6,000 4,000
1.5 Miscellaneous Transportation Data Analysis	-	-	-	-
1.6 Recommendations	-	-	-	-
SUBTOTAL	-	\$30,000	-	\$30,000
2.0 Continuing Transportation Planning				
2.1 Data Maintenance	\$ 2,500	\$ 3,500	-	\$ 6,000
2.2 Review Forecasts	19,000	4,500	-	23,500
2.3 Consider Pan Modifications	11,000	7,000	-	18,000
2.4 Coordinate with Other Elements	1,000	-	-	1,000
2.5 Other Special Elements	1,000	-	-	1,000
2.6 Elderly and Handicapped	1,000	-	-	1,000
SUBTOTAL	\$35,000	\$15,000	-	\$50,500
3.0 Transportation Operations Audit				
3.1 Investigate Accounts	-	\$ 400	-	400
3.2 Recommendations	-	400	-	400
SUBTOTAL	-	\$ 800	-	\$ 800
4.0 Transit System Data Collection & Analysis				
4.1 Develop Questionnaire & Data Forms	-	\$ 500	-	\$ 800
4.2 Collect Transit Data	-	1,000	-	1,000
4.3 Analyze Data	-	700	-	700
4.4 Develop Marketing Program	-	700	-	700
4.5 Route & Schedule Decisions	-	100	-	100
SUBTOTAL	-	\$ 3,000	-	\$ 2,000

<u>Task</u>	<u>SDHPT</u>	<u>City of Abilene</u>	<u>Consultant Service</u>	<u>Total</u>
5.0 Thoroughfare & Collector Plan				
5.1 Update Map to Illustrate Recent Improvements	-	\$ 2,000	-	\$ 2,000
5.2 Evaluate Needs & Locations of Proposed Arterials	-	2,000	-	2,000
5.3 Evaluate Collector Locations in Undeveloped Areas	-	4,000	-	4,000
5.4 Consider Changes in Arterial & Collector Designations	-	4,000	-	4,000
5.5 Establish Pavement Widths & R.O.W.	-	4,000	-	4,000
5.6 Designate Subcollectors	-	4,000	-	4,000
5.7 Produce Plan Document	-	6,000	-	6,000
SUBTOTAL	-	\$26,500	-	\$26,000
6.0 Serial Zone Land Use Projections				
6.1 Evaluate Existing Land Use	-	\$ 1,200	-	\$ 1,200
6.2 Five-Year Forecasts	-	2,000	-	2,000
6.3 Ten-Year Forecasts	-	2,000	-	2,000
SUBTOTAL	\$35,500	\$80,000	-	\$115,500