

Rapid City Area Metropolitan Planning Organization

2016 ANNUAL REPORT

(UPWP AGREEMENT 311253)



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GENERAL ACRONYMS

| | |
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| ADA | Americans with Disabilities Act of 1990. Mandates changes in building codes, transportation, and hiring practices to prevent discrimination against persons with disabilities. This act affects all existing and new public places, conveyances, and employers. The significance of ADA in transportation will be most apparent in transit operations, capital improvements, and hiring practices. |
| CIP | Capital Improvement Program |
| EPC | Executive Policy Committee of the Metropolitan Planning Organization |
| FHWA | Federal Highway Administration |
| FTA | Federal Transit Administration |
| GIS | Geographic Information System |
| GPS | Global Positioning System |
| L RTP | Long Range Transportation Plan |
| MAP-21 | Moving Ahead for Progress in the 21 st Century. This two-year highway bill was approved in the year 2012, and carries on the previously established emphasis towards developing a balanced transportation system, including public transit, bicycle and pedestrian modes, and environmental and social consequences. |
| MPO | Metropolitan Planning Organization |
| SDDOT | South Dakota Department of Transportation |
| Section 5307 | Federal Transit Administration program that provides capital and operating assistance to urbanized areas. |
| Section 5310 | Federal Transit Administration program that provides capital assistance to organizations that provide transportation services to elderly and disabled persons. |
| STIP | State Transportation Improvement Program |
| TAZ | Traffic Analysis Zone |
| TIP | Transportation Improvement Program |
| UPWP | Unified Planning Work Program |
| USDOT | United States Department of Transportation |

INTRODUCTION/PURPOSE

The Rapid City Area Metropolitan Planning Organization (MPO) provides a comprehensive, cooperative and continuing program of transportation planning in the Rapid City, SD Urbanized Area. Participating agencies in the planning process include:

- City of Box Elder
- City of Rapid City
- City of Piedmont
- City of Summerset
- Ellsworth Air Force Base
- Federal Highway Administration
- Federal Transit Administration
- Meade County
- Pennington County
- Rapid City Area School District
- Douglas School District
- Meade School District 46-1
- South Dakota Department of Transportation

Representatives of these agencies establish and implement goals and objectives through the transportation planning process. The process functions through three committees which help guide the development of necessary plans and projects required to meet future transportation demands:

- The Citizens' Advisory Committee - Composed of MPO-wide representatives whose input provides a citizens' perspective on important transportation related issues.
- The Technical Coordinating Committee - Composed of technical staff of the participating agencies that are responsible for reviewing and recommending approval of major transportation system plans, projects, and studies.
- The Executive Policy Committee - Composed of elected and appointed officials from the participating agencies. The Committee is the approving body for the MPO and makes decisions regarding program content and the adoption of plans and studies required for implementation of the transportation planning program.

The Annual Report is designated in the Operations Plan as one of the transportation products to be presented to the MPO's three transportation process committees. The report is required to provide an overview of the MPO activities. Included in this report is information on the MPO's financial expenditures during the 2016 calendar year on an overall basis and on a program line item basis. Also included are brief descriptions of activities associated with each line item.

2016 UPWP Work Activities

Personnel Services

These UPWP activities directly related to a comprehensive, cooperative and continuing planning process emphasized within MAP-21, one that promoted, preserved and produced an efficient intermodal transportation system, supporting economic development while improving security and safety.

2016 Work Activities:

1. Staff participated in the 2016 Rapid City Area MPO Transportation Planning Self-Certification Process. There were no SDDOT certification reviews during 2016. However, the EPC self-certified the local transportation planning process, which included ensuring compliance with environmental justice requirements.
2. Staff coordinated the execution of the annual planning agreements among the SDDOT, City of Rapid City, City of Box Elder, City of Summerset, City of Piedmont, Meade County and Pennington County as appropriate.
3. Staff coordinated and developed the 2016 Rapid City Area MPO UPWP, which included the cost of staff time, public notices, and printing costs.
4. Staff coordinated with the SDDOT to consolidate all consultant contracts and unobligated funding into the 2016 UPWP.
5. Staff prepared demographic profiles based on best available information (2010 US Census Bureau and local building permit data) which enhanced the environmental justice requirements.
6. Staff updated and revised MPO planning documents including the Transportation Improvement Program (TIP).
7. Staff maintained the MPO's accounting and vouchering system, whereby participants in the local transportation planning process are reimbursed for eligible transportation planning work activities.
8. Staff monitored work activities outlined in the 2016 UPWP and submitted vouchers either monthly or quarterly for reimbursement of eligible transportation planning work activities.
9. Staff monitored the implementation of grant activities and determined that UPWP budget amendments were unnecessary.

10. Staff attended committee meetings, transportation planning meetings, and public meetings throughout the planning year. Staff discussed and distributed information regarding the transportation planning process and transportation improvements.
11. Staff continued to participate in regular meetings with non-profit transportation providers to assist with the development, implementation and monitoring of the Coordinated Public Transit-Human Services Transportation Plan.
12. Staff undertook supporting activities of the MPO committees and the planning process by coordinating and staffing meetings, open houses and public hearings, developing committee agendas and taking meeting minutes, assembling and distributing meeting packets, posting and publishing public notices, developing reports and documents, managing committee membership, maintaining the Transportation Planning website, and distributing information.
13. Staff attended various training courses, conferences, seminars, workshops and other activities related to professional development. The cost of training, travel and lodging, including staff time is included in this activity. The out-of-state travel was approved by the SDDOT via written travel request with justification in advance of the event.
14. Staff participated in FHWA, FTA, and/or SDDOT training opportunities and events which pertain to the operations and planning process of the Rapid City Area MPO.
15. Staff assisted member agencies of the MPO with the development of their Comprehensive Plans. Assistance provided under the UPWP was limited to study advisory team participation, land use assessments, street plan updates, tasks associated with the development of the travel demand model and the preparation of GIS generated maps.
16. Staff assisted communities within the MPO in the preparation of GIS maps for land use data on an as-needed basis.
17. Staff continually developed, monitored and maintained the GIS database and TAZ data for the MPO area.
18. Staff participated in agency professional memberships and subscriptions related to transportation planning.
19. Staff reviewed USDOT regulations, guidance, and circulars, and reviewed best practices information, from other sources, to ensure compliance with regulations.
20. Staff maintained inventories of transportation information required for transportation planning, including traffic counts and turning movement counts. New data was gathered and existing inventories updated and made available for MPO functions.

21. MPO member agencies also maintained inventories of data necessary for transportation planning. These inventories included traffic counts, turning movement counts and crash statistics and were provided to the MPO as needed.
22. Traffic information, inventories and data gathering efforts were coordinated with staff and transportation specialists from the SDDOT.
23. Staff cooperated with SDDOT efforts to expand the Global Positioning System (GPS) control for South Dakota to continue establishing accurate GIS position data.
24. Staff maintained and updated geographic information systems base inventory maps of the natural and man-made resources, features, and environmentally sensitive areas that could be adversely affected by changes in the region's transportation system. GIS staff continues to expand the use of coordinate geometry to input plat information.
25. Staff worked with consultant to update aerial photography and pictometry within the MPO Area.
26. Staff continued to add land use and socio-economic data to the GIS database.
27. City and County staff reviewed proposed land use changes and developmental proposals to determine their anticipated effects on the existing and future transportation system.
28. Staff updated socio-economic data, prepared socio-economic forecasts, and prepared the residential land use reports.
29. Staff collected data needed to conduct transportation planning tasks identified in the UPWP.
30. Staff conducted public involvement activities as identified in the Participation Plan.
31. Staff maintained the travel demand forecasting model and used the updated model to review transportation decisions.
32. Staff analyzed impacts related to land use and transportation system coordination on a corridor/study area basis.
33. Staff prepared the public transportation portion of the CIP and the 2017-2020 TIP. The TIP included the four-year plan for proposed capital and operating expenditures for public transportation and identified potential funding sources. The TIP was developed, adopted, and distributed in compliance with all federal, state, and local requirements. The TIP included all transportation improvements planned

by the member agencies within the Rapid City Metropolitan Planning Area for 2017-2020, including both federal and non-federal funded projects.

34. Staff evaluated all transportation improvement projects for consistency with the LRTP. All transportation improvement projects were reviewed for their impacts on intermodal facilities and routes within the urbanized area and the region and for consistency with the LRTP.
35. Staff accounted for life-cycle costs when comparing project estimates with projected financial resources.
36. Staff continued the process of implementing a pavement management system. The Rapid City Engineering Services Division staff lead the efforts in creating and maintaining the pavement management system and the implementation process.
37. Staff continued to analyze crash statistics city-wide using a critical rate analysis method to identify high crash locations and program safety improvements through the Rapid City Engineering Services Division and the Police Field Services Division. This process was used to develop and produce the Traffic Crash and Enforcement Review.
38. Staff evaluated potential and existing safety issues for pedestrians and vehicles.
39. Staff evaluated and monitored the transit system's operational characteristics in order to identify necessary changes. Staff continually identified short-range improvements to the public transportation system and analyzed the feasibility of various transit and paratransit service options.
40. Staff coordinated with agencies interested in the areas of land use management, environmental resources, environmental protection, conservation, and historic preservation.
41. Staff provided for consideration and implementation of projects, strategies, and services to increase the ability of the transportation system to support homeland security and to safeguard the personal security of all motorized and non-motorized users.
42. A year-end summary of work and financial activities was provided to the SDDOT.
43. Staff undertook the required activities necessary to administer, manage and complete the projects and studies identified in the 2016 Work Activities under Professional Services/Consultants contained herein.
44. Staff implemented the LRTP.

45. Staff verified that the public transportation implications of the Americans with Disabilities Act (ADA) are being pursued through the ADA Transition Plan. The Transition Plan also included transit stops.
46. Staff implemented the requirements of MAP-21.
47. Staff conducted and coordinated the development and approval of transportation-related comprehensive planning, including land use and major street plans for developing areas within the Metropolitan Planning Area.
48. Staff completed other transit-related planning activities and special studies as approved by the transportation planning committees.
49. Staff conducted a Rapid Transit bus route review study.
50. Staff recommended award of FTA §5310 funds.

Professional Services/Consultants

These activities address both identified and unanticipated problems and needs that occur during the course of the work program year. Contractual services with consultants or other professionals to conduct studies and other UPWP activities were identified by a corresponding program year.

2016 Work Activities:

1. Staff completed work on Request for Proposals and other necessary documentation. All MPO approved Request for Proposals were distributed, consultant selection procedures followed, and contracts prepared and executed. Staff was responsible for contract preparation, contract execution, and project management.
2. Staff requested approval from the MPO committees of the implementation of special studies as identified in the UPWP. Work under this task included coordination of meetings, budget preparation, and special analysis.
3. Staff undertook required activities necessary to administer, manage and complete the following projects and studies to the extent of budgeted funding:
 - a. Continued working with consultant to finish an interchange options study for I-90 Exit 59 (La Crosse Street).
 - b. Continued working with consultant on the interchange options study for I-90 Exits 63-67 (Box Elder).

- c. Continued working with consultant to develop the Metropolitan Planning Organization website.
- d. Continued working with SDDOT and the consultant on the US Highway 16 / 16 B (Catron Boulevard) Intersection Study.
- e. Selected consultant to complete the Regional Transit Feasibility Study.
- f. Continued working with the Ellsworth Development Authority and the consultant on the Ellsworth Joint Land Use Study.

Capital Resources

These activities include the capital investments necessary to carry out the transportation planning process.

- 1. MPO staff acquired computer hardware, software (including software upgrades) and peripheral devices to ensure continuation of the transportation planning process. SDDOT reviewed all capital purchases justifying the purchase prior to acquisition.
 - a. Completed the LiDar / Orthophotography / Elevation Contour project and closed out the contract.

2016 Year End UPWP Budget

| City of Box Elder | | | | Federal - 81.95% | | Local - 18.05% | | Total | | |
|-----------------------|--------------|------|-------------|------------------|-----------------|----------------|-----------------|-----------------|------------------|--------|
| DESCRIPTION | TOTAL BUDGET | FHWA | LOCAL MATCH | FUNDS EXPENDED | FUNDS REMAINING | MATCH EXPENDED | MATCH REMAINING | BUDGET EXPENDED | BUDGET REMAINING | % Used |
| Personnel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% |
| Professional Services | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% |
| Capital Resources | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% |

| Meade County | | | | Federal - 81.95% | | Local - 18.05% | | Total | | |
|-----------------------|--------------|------------|-------------|------------------|-----------------|----------------|-----------------|-----------------|------------------|--------|
| DESCRIPTION | TOTAL BUDGET | FHWA | LOCAL MATCH | FUNDS EXPENDED | FUNDS REMAINING | MATCH EXPENDED | MATCH REMAINING | BUDGET EXPENDED | BUDGET REMAINING | % Used |
| Personnel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% |
| Professional Services | 200,000.00 | 163,900.00 | 36,100.00 | 0.00 | 163,900.00 | 0.00 | 36,100.00 | 0.00 | 200,000.00 | 0.00% |
| Capital Resources | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% |
| Total | 200,000.00 | 163,900.00 | 36,100.00 | 0.00 | 163,900.00 | 0.00 | 36,100.00 | 0.00 | 200,000.00 | 0.00% |

| City of Rapid City | | | | Federal - 81.95% | | Local - 18.05% | | Total | | |
|-----------------------|--------------|------------|-------------|------------------|-----------------|----------------|-----------------|-----------------|------------------|--------|
| DESCRIPTION | TOTAL BUDGET | FHWA | LOCAL MATCH | FUNDS EXPENDED | FUNDS REMAINING | MATCH EXPENDED | MATCH REMAINING | BUDGET EXPENDED | BUDGET REMAINING | % Used |
| Personnel | 457,232.00 | 374,701.62 | 82,530.38 | 207,507.74 | 167,193.88 | 45,704.88 | 36,825.50 | 253,212.62 | 204,019.38 | 55.38% |
| Professional Services | 160,000.00 | 131,120.00 | 28,880.00 | 3,047.06 | 128,072.94 | 671.14 | 28,208.86 | 3,718.20 | 156,281.80 | 2.32% |
| Capital Resources | 54,150.00 | 44,375.93 | 9,774.08 | 40,273.61 | 4,102.31 | 8,870.52 | 903.56 | 49,144.13 | 5,005.87 | 90.76% |
| Total | 671,382.00 | 550,197.55 | 121,184.45 | 250,828.42 | 299,369.13 | 55,246.53 | 65,937.92 | 306,074.95 | 365,307.05 | 45.59% |

| SDDOT | | | | Federal - 81.95% | | Local - 18.05% | | Total | | |
|-----------------------|--------------|------------|-------------|------------------|-----------------|----------------|-----------------|-----------------|------------------|--------|
| DESCRIPTION | TOTAL BUDGET | FHWA | LOCAL MATCH | FUNDS EXPENDED | FUNDS REMAINING | MATCH EXPENDED | MATCH REMAINING | BUDGET EXPENDED | BUDGET REMAINING | % Used |
| Personnel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% |
| Professional Services | 685,000.00 | 561,357.50 | 123,642.50 | 291,432.88 | 269,924.62 | 64,189.91 | 59,452.59 | 355,622.79 | 329,377.21 | 51.92% |
| Capital Resources | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% |
| Total | 685,000.00 | 561,357.50 | 123,642.50 | 291,432.88 | 269,924.62 | 64,189.91 | 59,452.59 | 355,622.79 | 329,377.21 | 51.92% |

| 2016 UPWP Totals | | | | Federal - 81.95% | | Local - 18.05% | | Total | | |
|-----------------------|--------------|--------------|-------------|------------------|-----------------|----------------|-----------------|-----------------|------------------|--------|
| DESCRIPTION | TOTAL BUDGET | FHWA | LOCAL MATCH | FUNDS EXPENDED | FUNDS REMAINING | MATCH EXPENDED | MATCH REMAINING | BUDGET EXPENDED | BUDGET REMAINING | % Used |
| Personnel | 457,232.00 | 374,701.62 | 82,530.38 | 207,507.74 | 167,193.88 | 45,704.88 | 36,825.50 | 253,212.62 | 204,019.38 | 55.38% |
| Professional Services | 1,045,000.00 | 856,377.50 | 188,622.50 | 294,479.94 | 561,897.56 | 64,861.05 | 123,761.45 | 359,340.99 | 685,659.01 | 34.39% |
| Capital Resources | 54,150.00 | 44,375.93 | 9,774.08 | 40,273.61 | 4,102.31 | 8,870.52 | 903.56 | 49,144.13 | 5,005.87 | 90.76% |
| Total | 1,556,382.00 | 1,275,455.05 | 280,926.95 | 542,261.30 | 733,193.75 | 119,436.44 | 161,490.51 | 661,697.74 | 894,684.26 | 42.52% |