

# Engineering Services



City of Rapid City  
Public Works Department  
Engineering Services Division  
2-12-2013

# Engineering Services

<b>39 Personnel:</b>	<b>2</b>	<b>Administrative</b>
	<b>5</b>	<b>Project Administrators</b>
	<b>13</b>	<b>Technicians</b>
	<b>3</b>	<b>Traffic Workers</b>
	<b>1</b>	<b>Electrician</b>
	<b>14</b>	<b>Engineers</b>
	<b>1</b>	<b>Storm Water Specialist</b>

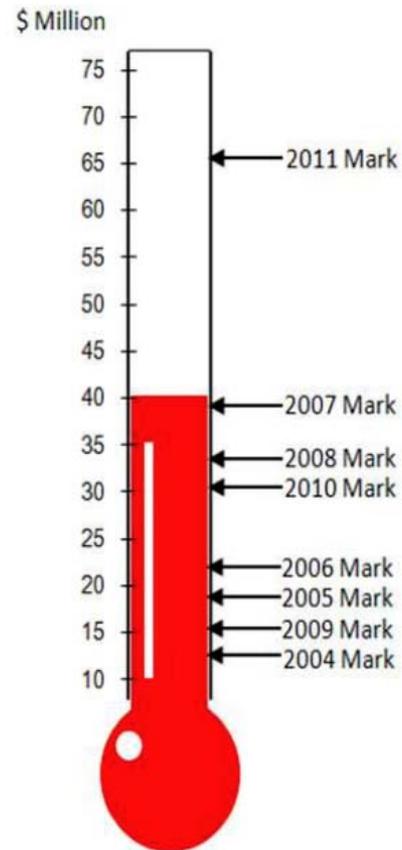
**4 groups:**

**Design**  
**Construction**  
**Development Review**  
**Traffic Operations**

# Engineering Services Responsibilities

Engineering Services is responsible for the planning, design and construction of City infrastructure including Streets, Drainage, Water, and Sewer. Engineering also manages the Streets, Drainage and Miscellaneous Improvements portion of the five year Capital Improvement Plan (CIP). The budget for the Streets, Drainage and Miscellaneous Improvements part of the CIP is approximately \$7 million annually. Total average annual project budget for City Infrastructure is \$25 million.

# 2012 Bid Totals

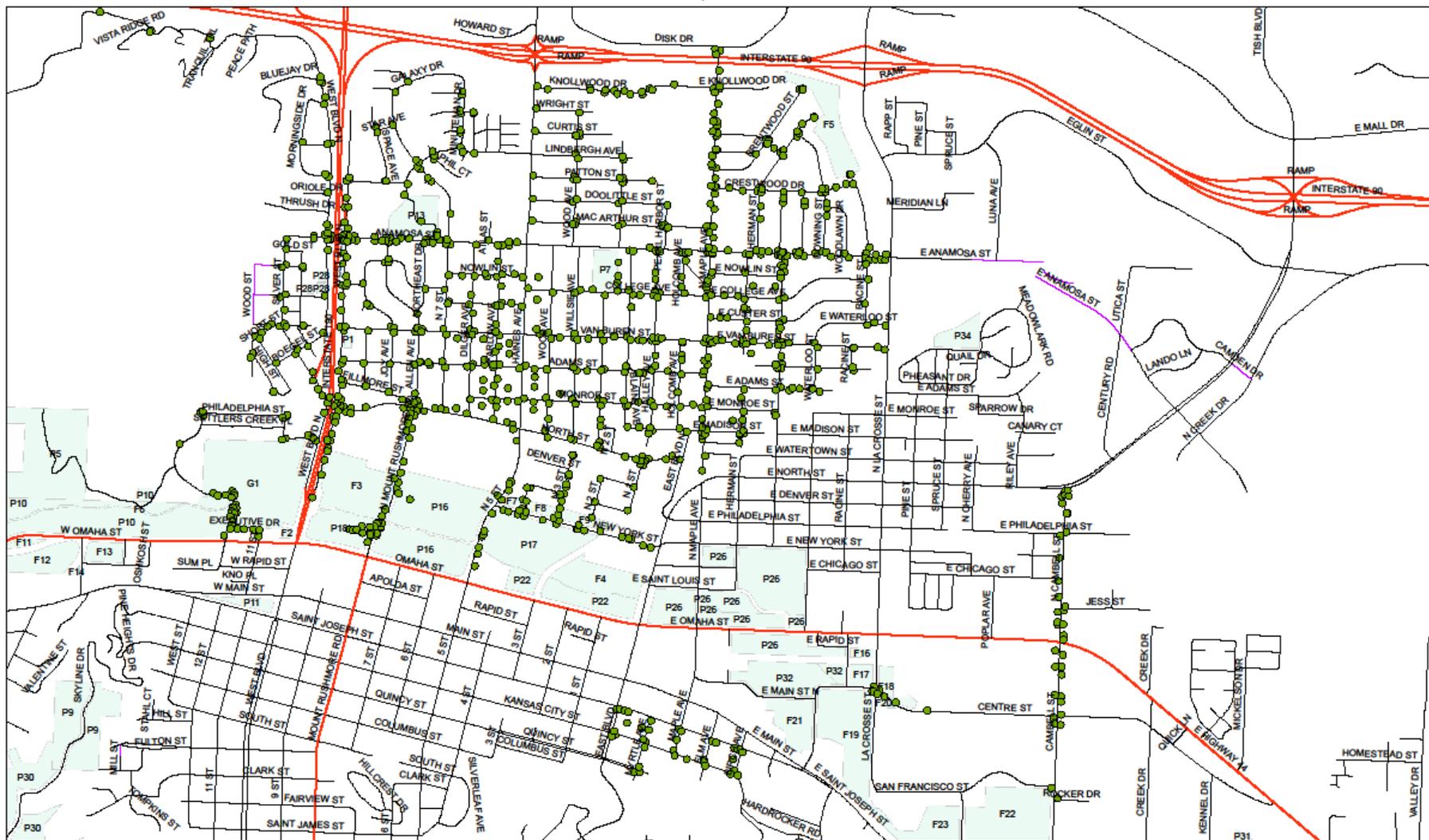


# Engineering Services

- ▣ Traffic Operations
  - Maintain and operate traffic signals, signs, roadway lighting and pavement markings.
  - Traffic counts.
  - Review Traffic Impact Studies.
  - Perform Warrant analysis for intersection control.
  
- ▣ Development Review Group
  - Issue and manage permits for work within ROW, including utilities and accesses.
  - Review, approve, and inspect Private Development projects that will become part of the City Infrastructure System.
  - Regulate Stormwater activities.

# Sign Inventory

Traffic Operations Sign Inventory  
Progress Map  
October 23, 2011



# Engineering Services

- ▣ Design Group
  - Utility master planning and CIP coordination.
  - Issuance of RFP's for professional services for City projects.
  - Complete in-house designs for smaller projects.
  - Evaluate exception requests to Standard Specifications.
  - Manage in-house and Consultant projects through the bidding phase of the project.
  - On-site wastewater permitting/Source Water Protection.
  - Storm Water Quality Standards.
  - Floodplain Management.



# Engineering Services

- ▣ Construction Group
  - Provide review of in-house and Consultant designs for constructability.
  - Manage in-house and Consultant projects from the pre-work meeting to project completion.
  - Process and review contractor pay applications and contract change orders
  - Provide construction oversight and inspection with City staff.
  - Manage Consultant construction oversight and inspection.

# Engineering Services

## Specific Programs

- ▣ Municipal Separate Storm Sewer System (MS4) Phase II      DENR      EPA
- ▣ National Flood Insurance Program (NFIP)      FEMA
- ▣ Urban Systems      SDDOT      FHWA
- ▣ Accessibility within ROW      ADA

# Engineering Services

## Other Responsibilities

- ▣ Consultant Selection QBS
- ▣ Infrastructure Design Criteria Manual
- ▣ Standard Specifications
- ▣ Drainage Basin Design Plans
- ▣ Track Subdivision Improvements and Surety
- ▣ Vision 2012 projects
- ▣ Public Service Announcements

# Consultant Selection

## 2012 Public Works Consultant Contract Awards

(Firm, Number of Selections, Dollar Amount)

Contracts Awarded January 1, 2012 - December 17, 2012

