



# Draft 2015–2020 Capital Improvement Program

City of Boulder, Colorado





**2015—2020 Draft Capital Improvement Program**

[This page is intentionally blank.]



## City of Boulder Staff

City Manager .....	Jane S. Brautigam
City Attorney .....	Tom Carr
Municipal Judge.....	Linda P. Cooke
Chief Financial Officer .....	Bob Eichem
Director of Finance.....	Cheryl Pattelli
Director of Public Works for Utilities .....	Jeffrey M. Arthur
Interim Director of Parks and Recreation .....	Jeff Dillon
Executive Director of Energy Strategy and Electric Utility Development .....	Heather Bailey
Fire Chief.....	Larry Donner
Executive Director of Community Planning and Sustainability.....	David Driskell
Director of Library and Arts.....	David Farnan
Director of Labor Relations.....	Eileen Gomez
Director of Information Technology .....	Don Ingle
Director of Support Services/City Clerk.....	Alisa D. Lewis
Director of Human Resources.....	Joyce Lira
Director of Open Space and Mountain Parks .....	Michael Patton
Director of Human Services .....	Karen Rahn
Executive Director of Public Works .....	Maureen F. Rait
Municipal Court Administrator.....	Lynne Reynolds
Police Chief .....	Greg Testa
Director of Communications .....	Patrick Von Keyserling
Director of Public Works for Transportation .....	Tracy Winfree*
Director of Downtown University Hill Mgmt Division/Parking Services.....	Molly Winter

\* Member of the CIP Peer Review Team

## City of Boulder CIP Staff Team

Budget Officer (CIP Coordinator) .....	Peggy Bunzli*
Community Sustainability Coordinator (CIP Coordinator) .....	Jean Gatza*
Planner II (CIP Coordinator) .....	Chris Meschuk*
Community Planning & Sustainability .....	Susan Richstone
Downtown & University Hill Mgmt Division/Parking Services .....	Donna Jobert*
Finance .....	Milford John-Williams*
Fire .....	Frank Young
Information Technology .....	Beth Lemur
Open Space & Mountain Parks .....	Mike Orosel
Parks & Recreation .....	Douglas Godfrey*
Parks & Recreation .....	Jeff Haley
Police .....	Bridget Pankow
Public Works .....	Joanna Crean
Public Works/Airport.....	Tim Head
Public Works/Facilities & Asset Management.....	Joe Castro
Public Works/Facilities & Asset Management.....	Mitch Meier*
Public Works/Greenways .....	Annie Noble
Public Works/ Greenways .....	Kurt Bauer
Public Works/Transportation.....	Stephany Westhusin*
Public Works/Utilities.....	Ken Baird
Public Works/Utilities.....	Bob Harberg
Public Works/Utilities.....	Douglas Sullivan*

\* Member of the CIP Peer Review Team

**2015 – 2020 CAPITAL IMPROVEMENT PROGRAM  
TABLE OF CONTENTS**

City Council .....	iii
City of Boulder Staff .....	iv
Table of Contents.....	vi
List of Figures and Tables.....	ix
How to Use This Document .....	xi

**INTRODUCTION**

Capital Improvement Program Introduction.....	1
---	---

**FUNDING SUMMARIES**

Overview .....	15
Funding by Department .....	17
Funding by Project Type .....	33
Funding by Fund.....	45

**SEPTEMBER 2013 FLOOD**

Overview .....	63
Flood Costs by Department .....	64
Sources of Funding.....	65

**CAPITAL IMPROVEMENT BOND**

Overview .....	67
2011–2015 Spend Plan.....	73

**DOWNTOWN UNIVERSITY HILL MANAGEMENT DIVISION / PARKING SERVICES**

Overview .....	75
2015–2020 Funding Summary by Department .....	80
Projects Map.....	81
Project Sheets .....	82

**FACILITIES AND ASSET MANAGEMENT**

Overview .....	87
2015–2020 Funding Summary by Department .....	94
Projects Map.....	95
Project Sheets .....	96

**FIRE AND RESCUE**

Overview .....	115
----------------	-----

**2015 – 2020 CAPITAL IMPROVEMENT PROGRAM  
TABLE OF CONTENTS**

**GREENWAYS**

Overview ..... 119  
2015–2020 Funding Summary by Department ..... 124  
Projects Map..... 125  
Project Sheets ..... 126

**INFORMATION TECHNOLOGY**

Overview ..... 131  
2015–2020 Funding Summary by Department ..... 136  
Project Sheets ..... 138

**OPEN SPACE AND MOUNTAIN PARKS**

Overview ..... 145  
2015–2020 Funding Summary by Department ..... 150  
Projects Map..... 151  
Project Sheets..... 152

**PARKS AND RECREATION**

Overview ..... 175  
2015–2020 Funding Summary by Department ..... 184  
Projects Map..... 185  
Project Sheets..... 186

**POLICE**

Overview ..... 207  
2015–2020 Funding Summary by Department ..... 210  
Project Sheets ..... 212

**TRANSPORTATION**

Overview ..... 213  
2015–2020 Funding Summary by Department ..... 222  
Projects Map..... 224  
Project Sheets..... 226

**UTILITIES**

Overview ..... 245  
2015–2020 Funding Summary by Department ..... 262  
Projects Map..... 266

**2015 – 2020 CAPITAL IMPROVEMENT PROGRAM  
TABLE OF CONTENTS**

Project Sheets .....	268
<b>APPENDIX A: MAPS OF PROJECTS BY AREA .....</b>	<b>331</b>
<b>APPENDIX B: UNFUNDED PROJECTS .....</b>	<b>337</b>
<b>APPENDIX C: PROJECT RECOMMENDATIONS FOR CEAP.....</b>	<b>355</b>

**2015 – 2020 CAPITAL IMPROVEMENT PROGRAM  
LIST OF FIGURES AND TABLES**

**HOW TO USE THIS DOCUMENT**

Figure 0–1: Sample Capital Funding Plan Table ..... xiii

**INTRODUCTION**

Figure 1–1: CIP Guiding Principles..... 2  
Figure 1–2: 2015 Projects by Category..... 3  
Figure 1–3: Sustainability Framework..... 11  
Figure 1–4: CIP Definition and Criteria ..... 14

**FUNDING SUMMARIES**

Figure 2–1: Total Projected CIP Funding by Year ..... 15  
Figure 2–2: 2015–2020 Funding by Department ..... 18  
Table 2–1: 2015–2020 Funding Summary by Department..... 19  
Figure 2–3: 2015–2020 Funding by Project Type ..... 34  
Figure 2–4: 2015–2020 Funding By Project Type Excluding Utilities ..... 35  
Table 2–2: 2015–2020 Funding Summary by Project Type ..... 36  
Figure 2–5: 2015–2020 Funding by Fund..... 46  
Table 2–3: 2015–2020 Funding Summary by Fund ..... 47

**SEPTEMBER 2013 FLOOD**

Figure 3–1: Flood Costs by Department ..... 64  
Figure 3–2: Sources of Funding..... 65

**CAPITAL IMPROVEMENT BOND**

Table 4–1: 2011–2015 Spend Plan..... 73

**DOWNTOWN COMMERCIAL DISTRICT**

Table 5–1: 2015–2020 Funding Summary by Department..... 80

**FACILITIES AND ASSET MANAGEMENT**

Table 6–1: Capital Development Fund Balance – 2013 Year–End ..... 87  
Table 6–2: FAM Priority Codes ..... 91  
Table 6–3: 2015–2020 Funding Summary by Department..... 80

**FIRE**

Table 7–1: Unfunded Projects ..... 118

**2015 – 2020 CAPITAL IMPROVEMENT PROGRAM  
LIST OF FIGURES AND TABLES**

**GREENWAYS**

Table 8-1: 2015-2020 Funding Summary by Department ..... 124

**INFORMATION TECHNOLOGY**

Figure 9-1: IT Strategic Plan Projects ..... 134  
Table 9-1: 2015-2020 Funding Summary by Department ..... 136

**OPEN SPACE AND MOUNTAIN PARKS**

Table 10-1: 2015-2020 Funding Summary by Department ..... 150

**PARKS AND RECREATION**

Table 11-1: 2015-2020 Funding Summary by Department ..... 184

**POLICE**

Table 12-1: 2015-2020 Funding Summary by Department ..... 210

**TRANSPORTATION**

Table 13-1: 2015-2020 Funding Summary by Department ..... 222

**UTILITIES**

Table 14-1: Existing and Planned Utility Infrastructure Financed by Debt ..... 247  
Table 14-2: Utility Rate Increases ..... 258  
Table 14-3: Changes to ENR Index and CDOT Index ..... 259  
Table 14-4: 2015-2020 Funding Summary by Department ..... 262

**APPENDIX B: UNFUNDED LIST**

Table 16-1: Unfunded Projects—Emergency Preparedness ..... 340  
Table 16-2: Unfunded Projects— Infrastructure Deficiencies ..... 343  
Table 16-3: Unfunded Projects—Placemaking ..... 348

# 2015 – 2020 CAPITAL IMPROVEMENT PROGRAM

## HOW TO USE THIS DOCUMENT

The City of Boulder’s 2015–2020 Capital Improvement Program (CIP) contains information on how the city plans to invest available resources into key infrastructure and facilities between 2015 and 2020. This document contains: planned project funding summaries organized by department, project type, and fund; detail sheets for every project and program included in the plan; maps illustrating the location of projects throughout the city; and narratives describing the rationale behind project prioritization.

### **Document Organization**

The 2015–2020 CIP has five main parts:

- Introduction
- Funding Summaries
- Special Highlights
- Department Projects
- Appendices

### **Introduction**

The Introduction section provides an overview of the 2015–2020 CIP, describes the CIP development process, gives highlights of the CIP, and summarizes factors that influenced the projects included in the plan.

### **Funding Summaries**

The Funding Summaries section contains analysis of how the 2015–2020 CIP allocates dollars among city departments, project types, and funds. Full financial detail can be found in the tables of this section.

### **Special Highlights**

The Special Highlights sections include information on the effects of the September 2013 Flood on the CIP and highlight a major area of concerted effort related to capital investment: implementation of Capital Improvement Bond projects. The capital bond section contains a narrative describing associated projects and other highlights.

### **Department Projects**

The department sections each contain highlights of the department’s capital projects and factors that influenced project selection. Following the narrative, the department sections contain department funding summaries, maps that identify the locations of department projects, and project sheets for each of the department’s CIP projects.

### **Appendices**

The 2015–2020 CIP contains three appendices. The first appendix contains maps of CIP projects by area of the city. The second appendix contains information on unfunded capital projects and

## 2015 – 2020 CAPITAL IMPROVEMENT PROGRAM

### HOW TO USE THIS DOCUMENT

the third contains a list of CEAP projects.

#### Data Limitations

The 2015–2020 CIP provides the funding plan (amount needed by year) for each CIP project. That is, the amounts analyzed in the document’s summary sections and in each project sheet refer to planned budget allocations (sources) and not expenditures (uses).

Future versions of this CIP will migrate expenditure information into all sections of the document as it becomes available in the city’s financial systems.

#### How to Read Project Financial Data

The Capital Funding Plan section of the project sheets consists of three tables:

- Estimated Total Cost
- Capital Funding Plan
- Unfunded Amount

Figure 0–01 shows an example of the new tables. The *Estimated Total Cost* table shows the total estimated cost of completing the project. If a project sheet does not have a total cost, then the sheet is for an ongoing program, and the total cost field has been left blank.

For most projects in the CIP, the *Capital Funding Plan* table shows total allocated dollars to the project prior to 2015 and for each year between 2015 through 2020. However, on-going programs, because they have typically received funding for many years before 2015, do not have information about allocated funding prior to 2015. Ongoing programs generally allocate a set amount of funding per year on a continuing basis. Therefore, programs also do not have total cost information. Both blank fields focus the CIP on the coming six years of planned improvements for each on-going program, and by doing so, the CIP does not expect the on-going program to account for prior improvements or future improvements well beyond the CIP’s planning horizon that ends in 2015.

The *Unfunded Amount* shows the total project cost from the *Estimated Total Cost* table less the Total Funding Plan from the *Capital Funding Plan* table. The unfunded amount for projects typically represents amounts that will be funded in years beyond the current planning horizon of the CIP.

2015 – 2020 CAPITAL IMPROVEMENT PROGRAM  
HOW TO USE THIS DOCUMENT

Figure 0-1: Sample Capital Funding Plan Table

Estimated Total Cost		Unfunded Amount					
<b>Project Cost</b>		<b>Unfunded Amount</b>					
Planning		Project Cost Total				\$950,000	
Acquisition	\$950,000	Funding Total				(\$950,000)	
Construction							
<b>Total Project Cost</b>		<b>Total Unfunded</b>				<b>\$0</b>	
Capital Funding Plan							
Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Asset Forfeiture Fund	\$0	\$850,000	\$100,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$950,000</b>					

[This page is intentionally blank.]

City of Boulder  
**INTRODUCTION**

**2015–2020 Capital Improvement Program**

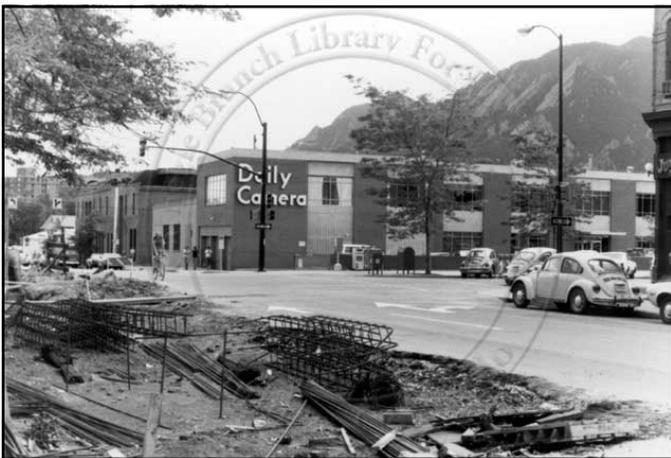
The City of Boulder’s Capital Improvements Program (CIP) is a comprehensive, 6–year plan for maintaining and enhancing public infrastructure by correcting current facility deficiencies and constructing new service–delivery infrastructure. The CIP provides a forecast of funds available for capital projects and identifies all planned capital improvement projects and their estimated costs over the 6-year period. A community’s CIP is a guide that lays out the framework for achieving the current and future goals related to the physical assets of the community.

Boulder has made significant investments to provide its current level of municipal services. The city owns and maintains 330 facilities, 1,800 acres of parkland, 45,384 acres of Open Space and Mountain Parks (OSMP), 305 centerline miles of streets, 159 centerline miles of bike facilities, 78 underpasses, three water treatment facilities, and over 800 miles of water and wastewater piping. The city funds the construction and maintenance of these assets using a wide range of sources,

including tax revenues, bond proceeds, and fees. The city continues to look for ways to leverage its funding, through federal, state, and local grants and reimbursements, to maximize funding for CIP projects.

The CIP development process prioritizes the city’s numerous needs spread across its 17 different departments, bearing in mind the limits of each funding source, progress on ongoing CIP projects, and funding commitments made by prior CIPs. To create a citywide understanding of which projects are chosen for inclusion in the CIP, the city developed nine CIP Guiding Principles to shape capital planning decisions

made throughout the CIP process. The CIP Guiding Principles also ensure individual department priorities for CIP funding are aligned with city goals. Figure 1–1 lists the CIP Guiding Principles.



Pearl Street Mall Construction, 1976. Photo courtesy the Carnegie Branch Library for Local History, Boulder Historical Society Collection.



## Figure 1-1: CIP Guiding Principles

The City of Boulder develops a Capital Improvement Program (CIP) that addresses the ongoing major business needs and maintenance and repair of city assets as well as enhancements and expansion called for in the Boulder Valley Comprehensive Plan. The CIP is a strategic document that assures that the municipal organization maintains a strong bond rating, implements community values, and has fiscal integrity. The city prioritizes its investments both across and within funds based on the following guiding principles:

1. **Capital Improvement Programs should be consistent with and implement Council-accepted master plans and strategic plans.**
2. **Capital Improvements should achieve Community Sustainability Goals:**
  - Environmental – sustainable materials, construction practices, renewable resources, etc.
  - Social – enhancements that improve accessibility to city services and resources provided to the community
  - Economic – effective and efficient use of public funds across the community.
3. **As potential capital investments are identified, the city must demonstrate in the CIP process that there are sufficient funds to operate and maintain the project or program.**
4. **Capital Improvement Programs should provide enough capacity and flexibility in our long-term planning to be able to respond to emerging, unanticipated needs.**
5. **Capital Improvement Programs should maintain and enhance the supporting city-wide “business systems”, such as information and finance systems, for the city over the long term.**
6. **Capital Improvement Programs should sustain or improve maintenance of existing assets before investing in new assets.**
7. **Capital improvements should:**
  - Meet legal mandates from federal, state, or city levels
  - Maintain or improve public safety and security
  - Leverage external investments
  - Promote community partnerships
  - Reduce operating costs and improve efficiency.
8. **Capital programming should maximize efficiency of investments demonstrated by measurable cost/benefit analyses and coordination of projects across departments within and across funds.**
9. **The Capital Improvement Program should provide sufficient reserves to allow for a sound fiscal foundation with benefits that include:**
  - A strong bond rating
  - The ability to address emergencies and natural disasters.

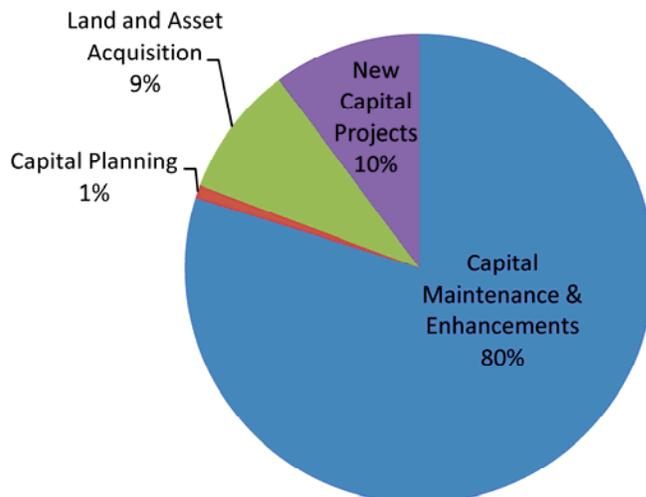


The 2015–2020 CIP includes funding for \$352.7 million for 156 projects. 103 projects are recommended for funding in 2015, totaling \$68.7 million. Proposed 2015–2020 allocations are \$114 million greater than 2014–2019 allocations (\$238.7) presented in the 2014–2019 CIP. The recommended 2015 allocations are \$26.3 million greater than approved 2014 allocations (\$42.4 million). The 2011 Capital Improvement Bond proceeds are not included in these totals because allocations for the bond occurred in 2012. The primary reasons for the increase in 2015–2020 are flood related projects, large utility projects, additional Transportation funding from the new .15 cent sales tax, and the response to the Emerald Ash Borer threat. The one year increase in 2015 is mainly due to the addition of projects in response to the 2013 flood, including large Utility projects, additional funding in Transportation, and the installation of parking garage access equipment in DUHMD. The city regularly sets aside money in its CIP to save for future projects. This important budget practice leads to better planning by allowing the city to pay for higher dollar projects over time rather than requiring the city to find funding in a single budget year.

The city is spending the majority, almost 80 percent, of its 2015 capital funds on capital maintenance and enhancement of its existing assets (See Figure 1–2). Capital enhancements involve upgrades to existing facilities, such as replacement of irrigation systems with updated technologies, materials and equipment that can be more efficient, effective and less costly to operate over time.

The CIP focuses on taking care of what the city already owns with an emphasis on making improvements to its core service areas.

**Figure 1–2: 2015 Projects by Category**





## CIP Highlights

The city anticipates completing a significant number of Capital Projects in 2014 and 2015. These projects benefit the City of Boulder, its residents and visitors by maintaining key infrastructure and functionality, maintaining and improving the transportation network, providing greater safety, maintaining and improving recreational facilities and natural lands, and maximizing the use of technology for greater efficiency and better service delivery. A few examples of these are listed below. Additional details on 2014 accomplishments and highlights of the 2015–2020 CIP are noted in the department overviews.

[Please note that Capital Improvement Bond projects are included in this list.]



Variable messaging sign located downtown.

**2014 Accomplishments** (see Department Overviews for additional details and highlights)

- Flood recovery (see Special Flood Highlight section )
- Completed variable messaging signage in downtown parking garages
- Implemented replacement of integrated Finance, Payroll and HR system
- Voluntary cleanup program of 13<sup>th</sup> Street Plaza
- Completed major drainageways plan for South Boulder Creek flood mitigation
- Completed upgrades and repairs to electrical, HVAC and roof of Weiser House, included on the National Register of Historic Places
- Completed Boulder Reservoir infrastructure improvements and site management plan
- Completed Arapahoe reconstruction from Folsom to 15<sup>th</sup> Street
- Built bridge over Goose Creek at Boulder Junction
- Assessed condition of wastewater collection system and removed debris
- Replaced approximately 20,000 feet of water main



Arapahoe Avenue under reconstruction in front of Boulder High School.

**2015 and Beyond Planning and Construction** (see Department Overviews for additional details and highlights)

- Complete Main Library renovation



Goose Creek at Boulder Junction. A bridge is being built to connect Junction Place to 33rd Street.



- Implement replacement of Police Records Management System
- Complete construction of new wildland fire station
- Wonderland Creek and Fourmile Canyon Creek flood mitigation improvements
- Coot lake restoration
- Responsive measures to mitigate the Emerald Ash Borer threat
- Begin implementation of Civic Area Plan
- Construct Baseline underpass, east of Broadway
- Complete West TSA implementation, complete North and East TSA plans, and begin North TSA implementation
- Barker Dam: safety related corrections to Dam and Reservoir; outlet rehabilitation; hydroelectric facility construction
- Construction of Carter Lake Pipeline

## Challenges

Each year, as the CIP is being updated, City Council, advisory boards, and staff consider technical, environmental, and financial challenges that could potentially limit the ability of the city to fund its priority projects. Challenges being identified in the 2015–2020 CIP include, flood impact and recovery costs, response to the Emerald Ash Borer threat, funding constraints, construction cost inflation, operational funding, unfunded projects.

### Flood Impact

The September 2013 flood had a threefold impact on the City of Boulder’s CIP. As a direct result of the flood, some previously planned projects have either been deferred or are no longer relevant (for example work on a single element of a park that now needs more extensive repair and restoration, as a result of the flood). In some cases, funding previously identified for regular CIP projects has been used to cover the cost of flood repair and recovery, and new or different funding sources will need to be identified to complete high priority projects, within the needed timeframe. Finally, the information learned from the flood has led to reprioritization of CIP projects. In the CIP, this is reflected in new projects, changes in timing of projects, and changes in scope of projects.

The 2015 – 2020 CIP includes a special flood highlight section, which provides additional information related to the impact of the flood on the CIP. Affected departments have also included details specific to their departments in the Department Overview sections of the CIP.



### **Emerald Ash Borer Threat**

In September, 2013, City of Boulder Parks and Recreation Forestry staff discovered an Emerald Ash Borer (EAB) infestation within the city. This is the first known occurrence of EAB in Colorado and is the western-most occurrence of this invasive pest in North America. Eradication and containment efforts across the country have been unsuccessful, resulting in the loss of over 50 million ash trees.

EAB management, including tree removal, tree replacement, wood disposal and pesticide treatments will have direct impacts to the City of Boulder and private residents over the next 15 years. Staff estimates the number of public, private and naturalized ash within the city is 98,000 trees. The loss of this tree canopy will have significant economic, social, and environmental impacts for decades.

Staff is gathering information and working interdepartmentally with Parks & Recreation, Integrated Pest Management team, Open Space and Mountain Parks, Development Review, and other interested divisions, departments and boards to develop an EAB work plan for 2014 and ultimately an EAB Management Plan to manage the infestation within the city and potentially slow the spread to nearby communities.

### **Funding Constraints**

Revenue has recovered over the past few years and voter renewal of several expiring taxes has helped to stabilize the long-term outlook, however, a structural gap between needs and resources still remains. The city will continue to prioritize its needs based on its available resources using the CIP Guiding Principles.

### **Construction Cost Inflation**

The *Engineering News Record* Construction Cost Index for Denver and the Colorado Department of Transportation (CDOT) Colorado Construction Cost Index indicate that construction costs are escalating at a rate of 3.63 percent, based on a 5-year rolling average. The 2013 change was lower than the 5-year rolling average with the ENR index increasing 0.5 percent and the CDOT index **decreasing** 12 percent, over 2012. The increases from 2011 to 2012 were significantly higher at 8 and 17 percent respectively for the ENR and CDOT indices. The 2013 change is reflected over an anomalously high inflation year, making the differential information potentially deceptive. As variations are not uncommon, a five-year rolling average is more indicative of the



inflationary trend. Staff closely monitors inflation indices and uses this information to determine expected capital cost escalation over the 6-year CIP. A higher cost escalator will reduce the amount of work that can be done with planned revenues, in particular, over the planning horizon of the CIP.

### Operational Funding

The organization continues to face the challenge of increased operating and maintenance (O&M) costs associated with new and existing capital improvements. The current CIP strives to identify O&M cost increases associated with projects and to identify funding for this. It also identifies O&M savings produced by capital enhancements.

### Unfunded Projects

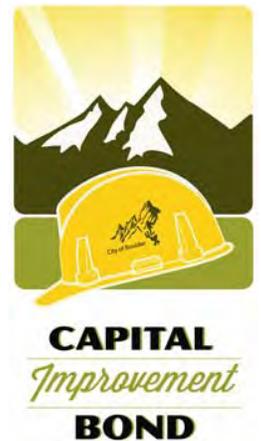
As the city embarked upon the capital phase of the Comprehensive Financial Strategy (CFS), staff continued to identify a large number of unfunded capital needs across the city. The 2015–2020 CIP includes information on citywide unfunded capital needs, both in department overview sections and in Appendix B to this document. While strategies to address all these needs are being developed, staff and council have recognized the need to be more intentional in calling out specific public safety (or emergency preparedness) unfunded capital needs. The 2015–2020 CIP, therefore, includes a department overview section for both Police and Fire, calling out long-term capital needs in these two departments and laying the groundwork for understanding, prioritizing, planning and, ultimately, including funding for crucial emergency preparedness capital projects in the city's CIP.

### Opportunities

Similarly, there are issues that positively impact the city's capital investment performance. Opportunities identified in the 2015–2020 CIP include the Capital Investment Strategy, additional funding availability, and the city's Comprehensive Financial Strategy.

### Capital Investment Strategy

A Capital Bond initiative was passed by the City of Boulder voters in November of 2011. As a result of this, the city was able to leverage existing revenues to bond up to \$49 million to fund capital projects. Additional information on the bond fund and projects is included in a separate section of this document.



The 2011 Capital Bond is approximately half way through the implementation phase.



### **Funding**

In November 2013, voters approved a temporary sales and use tax for Transportation, and renewed expiring taxes for the purposes of funding open space, transportation and general city needs. This additional and renewed funding provides continued opportunity for capital investment in the city. The 2015–2020 CIP includes Transportation and Open Space capital investment related to these funding sources. Other proposed capital investment will be brought forward in the next year(s), in line with recommendations from both the capital and operating phases of the Comprehensive Financial Strategy.

### **City's Comprehensive Financial Strategy**

A cross-departmental team is undertaking the update of the city's Comprehensive Financial Strategy. The purpose of the project is to review and update the revenue and expenditure components of the city's Comprehensive Financial Strategy to reflect current and projected economic and budgetary conditions, challenges, and issues to meet the strategic needs of the municipal corporation over the next five years. The project involves the examination of the Blue Ribbon Commission (BRC) I and BRC II implementation efforts to date. The project also includes the evaluation of many different areas affecting the city's Comprehensive Financial Strategy including the current capital needs assessments and the feasibility of a ballot initiative for the second phase of capital bonding.

Work associated with this project commenced in the late fall of 2013 and preliminary findings from the capital phase analysis have been presented to the City Council. Council is currently considering a Pay As You Go ballot initiative, which would use new, temporary sales and use taxes to fund specific capital needs such as catalytic projects in the Civic Area, improved safety and improvements along the Boulder Creek Path, lighting and other improvements in the University Hill Area, the arts, and capital contribution to other cultural projects in the City of Boulder.

### **Implementation of Subcommunity & Area Plans**

#### **North Boulder Subcommunity Plan**

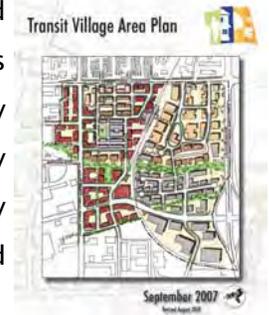
The North Boulder Subcommunity Plan (NoBo Plan) was adopted by the city in 1995. The city is currently evaluating the plan and developing a new generation of action items that further advances the original plan's vision. Much of the planning area has now been developed or is approved for development, and a significant number of Capital Improvements have been made in the area. Proposed Capital Improvements in the next six years include Wonderland Creek and



Fourmile Canyon Creek Flood and Greenways Improvements, and Violet Park development in coordination with Greenways. Additional capital projects will likely emerge out of the 2014 Action Plan for future prioritization against local and citywide projects.

### **Boulder Junction**

The Boulder Junction area includes the Transit Village Area Plan (TVAP), adopted by the city in 2008, which covers 160 acres. Implementation of the plan is underway, with the first two private development projects approved by the city and capital projects are currently under construction, including the Pearl Parkway Multiway Boulevard, construction of a bridge over Goose Creek, utility infrastructure installation, and a multi-use path along Pearl Parkway. Proposed capital investments in the next six years include construction of Junction Place north Pearl Parkway, a new pocket park at Junction Place and Goose Creek, and traffic signal installations.



The Transit Village Area Plan was adopted in 2007.

### **Gunbarrel Community Center Area Plan**

The Gunbarrel Community Center Plan was adopted in 2004. The Gunbarrel Town Center redevelopment has been approved, which is a key implementation project for the plan. Several public infrastructure improvements will be constructed by the developer in conjunction with this project. Projects include: a pedestrian crossing at Spine Road and Chaparral Court, a multi-use path from Spine Road to the Greens Industrial Park Open Space, sidewalks along Lookout Road and Gunpark Drive, and sidewalks along Nautilus Court.

### **Downtown Boulder**

The future vision for downtown Boulder was developed through the Downtown Alliance, and its final report in 1997. While significant private and public investment has occurred since that time, continual investments in the downtown are needed to continue to ensure downtown remains a primary community gathering place, business and commercial center, and tourism attraction. In the next six years, projects in downtown include ongoing parking garage maintenance, garage access equipment improvements, repair and replacement of CAGID parking lots, and improvements and amenities replacement on the mall.

### **Civic Area Plan**

Work on the civic area is under way, focusing on site activation, site transformation and major



capital project planning. CIP funds proposed for 2015 are related to technical, feasibility and programming studies which will provide due diligence and planning necessary to advance the major capital projects. These studies include planning and programming for a year-round Farmer's Market, facilities for innovation and city services, possible performing arts venues, parking, governance models, efficient utility planning, and other supporting, technical work.

### **Projects Recommended for CEAP**

The projects that are proposed to be evaluated under Community and Environmental Assessment Process (CEAP) review are listed in Appendix B, and the individual project sheets identify if a CEAP is required. The purpose of a CEAP is defined to "assess potential impacts of conceptual project alternatives in order to inform the selection and refinement of a preferred alternative."

CEAP findings are submitted by departments to their respective advisory board for review as part of CIP project approval. Council has the opportunity to call up projects for their review and approval. (For those departments that do not have an advisory board, Planning Board is responsible for reviewing CEAP findings as part of project approval.)

### **CIP Process**

The annual CIP process can be divided into three parts: Planning, Project Review, and Board Review/City Council Adoption. The responsibility for coordinating the process citywide is shared by the Department of Community Planning & Sustainability and the Finance Department.

#### **Planning**

The first phase of the process identifies and prioritizes the needs of the community. This is done by applying Boulder's Sustainability Framework to ensure that the CIP aligns with and advances the wide range of goals and priorities of the City Council and community. The seven categories of the Sustainability Framework build upon the Boulder Valley Comprehensive Plan and the city's Priority Based Budgeting (PBB) approach: two key initiatives that define long-term community goals and priorities. Both the BVCP and PBB were developed from extensive community input processes and are used to guide long-term decision making as well as the city's annual budget process.

The Sustainability Framework ensures that subcommunity and area plans and departmental master plans are aligned with the CIP. Subcommunity and area plans provide more detailed



planning for land use, urban design, neighborhood revitalization, and public facility needs for a specific area of the city. Departmental master plans include details about and funding plans for future needs related to services and facilities.. The master plans are used by each department during their decision making and prioritization as part of the annual budgeting and CIP processes. Figure 1-3 illustrates the relationship between the Sustainability Framework, BVCP, PBB, bcommunity and Area Plans, Master Plans, and the CIP.

Figure 1-3: Sustainability Framework





### **Project Review**

The second phase engages each department proposing projects for the CIP in a citywide review process. Proposed projects are reviewed by the CIP Peer Review Team (PRT). After the PRT's review of projects, the city's Executive Budget Team also reviews the project information and provides feedback to departments before departments propose projects for inclusion in the draft CIP.

### **Board Review and City Council Adoption**

The final phase involves review by department advisory boards, the Planning Board, and City Council. Department advisory boards review their department's proposed CIP projects and make recommendations to the Planning Board and City Council.

Section 78 of the City Charter calls for the city Planning Department to prepare the annual CIP with other city departments for submittal to the City Manager. The Planning Board evaluates and makes recommendations to the City Manager and City Council on the draft CIP. The Planning Board's review of the CIP includes the relationship of projects to the policies of the BVCP, subcommunity plans, area plans and departmental master plans.

City Council reviews the draft CIP in August, and provides feedback to the City Manager prior to final budget development. City Council appropriates funds for the first year of the CIP through the budget ordinances. While Colorado state law limits appropriations to the first year of the CIP, the succeeding five years of the annual CIP are important in providing a longer term plan for setting funding priorities, scheduling projects in a logical sequence, and coordinating and targeting capital improvements for all city departments.

### **CIP Process Changes**

The CIP document and process have undergone significant changes over the past four years to improve the selection of projects and communication of information on selected projects. The CIP Guiding Principles have been the foundation for all project selection and CIP process improvements.

Many of the changes made to the CIP have focused on improving the financial information included in the CIP document, through a partnership with the Finance Department and Department of Community Planning & Sustainability.

## Introduction

---



Due to the impact of the September 2013 flood and the implementation of a new financial and human resources Enterprise Resource Planning software on staff time and work load, this year's CIP process and document have been unchanged from last year.

The city will continue to make improvements to the CIP in future years. Changes planned for the future include updates to the CIP section of the City Plans and Project Handbook, adding project expenditure and schedule information to the document, incorporating graphical enhancements to improve the on-line view of the information and document, and incorporating performance measures into the plan.



## Figure 1–4: CIP Definition and Criteria

### ***Capital Improvement Program Projects***

“CIP projects are any major projects requiring the expenditure of public funds (over and above operation expenditures) for the purchase, construction, or replacement of the physical assets of the community. This broad definition includes those projects that are bondable, technology infrastructure, new or expanded physical facilities as well as the land necessary for the project.”

#### ***Criteria for New Capital Project:***

- Projects resulting in the construction or acquisition of a new asset.
- Construction resulting in additional square footage of an existing asset.
- Projects have a discrete start and end date.
- Projects are location specific.
- Projects are typically over \$50,000 in total project cost, but do not have to be.
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years.

#### ***Criteria for Capital Enhancement:***

- Construction resulting in the expansion or significant improvement of an existing facility or asset.
- Projects have a discrete start and end date.
- Projects are location specific.
- Projects are typically over \$50,000 in total project cost, but do not have to be. Information Technology projects are typically over \$25,000 in total project cost.
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years. Information Technology projects may be as short as 5 years.

#### ***Criteria for Capital Maintenance:***

- Projects result in the repair, replacement, or renovation of an existing asset.
- Projects may or may not have a discrete start and end date.
- Projects are location specific or programs that cover a geographic area.
- Projects are typically over \$50,000 in total project cost. Information Technology projects are typically over \$25,000 in total project cost.
- Projects result in a durable, lasting physical asset, with a useful life of at least 5 years. Information Technology projects may be as short as 3 years.

#### ***Criteria for Land & Asset Acquisition:***

- Project or program results in the acquisition of real property, such as land, mineral or water rights, or permanent easements.
- Projects may have discrete start and end dates, or may be programmatic.
- Projects or programs may be location specific or city-wide.
- Projects or programs typically include acquisitions totaling over \$50,000.

#### ***Criteria for Capital Planning Studies:***

- Project results in the development of a study or plan which is intended to identify, plan, or prepare for the construction or acquisition of capital assets or capital program.
- Projects have discrete start and end date.
- Projects are typically for studies that are over \$50,000 in total cost.

City of Boulder

# FUNDING SUMMARIES

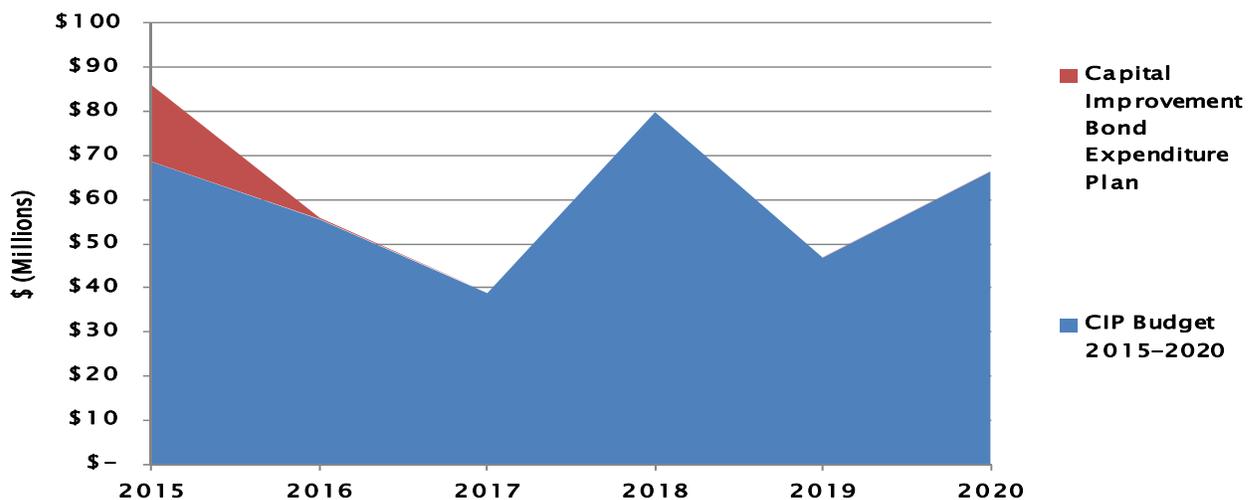
## 2015–2020 Capital Improvement Program

The Funding Summaries section provides full detail of the city’s CIP budget needs from 2015 through 2020 by department, project type, and fund. For each of the three funding views, the following information is shown:

- Total project cost
- Planned funding allocation in each year 2015–2020 and the six–year total
- Prior funded amount
- Unfunded amount

The Funding Summaries focus on estimated budget needs (sources) for all projects. The CIP this year shows limited instances of planned or actual expenditures at a project, department, or fund level. In practice, as projects are planned, designed, and constructed, during any given year, appropriated project sources almost always differ from project expenditures. In some circumstances, such as a large project that requires many years of accumulated funds before design or construction can commence, expenditures may significantly lag appropriations. Figure 2–1 shows total CIP funding for 2015–2020. Funding varies year over year depending on specific project plans. For example, 2018 includes the Carter Lake Pipeline project which carries a significant cost.

**Figure 2–1: Total Projected CIP Funding by Year<sup>1</sup>**



Notes:

<sup>1</sup> The Red area is the 2014–2015 portion of the 2011 Capital Improvement Bond funds. These bonds were sold and funding appropriated in 2012. The blue area is planned allocations of 2015–2020 funding for all other projects.



All tables and graphs in this section include transfers between departments. These transfers are included in the departments because they will appear in the individual department sections of the overall city budget. The summary information included in the introduction removes transfers to avoid double counting and to correctly express the total project funding of the CIP.

City of Boulder

# FUNDING BY DEPARTMENT

2015–2020 Capital Improvement Program



The following city departments are participating in the 2015–2020 CIP:

- Downtown / University Hill Management Division and Parking Services (DUHMD/PS)
- Fire and Rescue
- Information Technology (IT)
- Open Space and Mountain Parks (OSMP)
- Parks and Recreation
- Police
- Public Works (PW) – Facilities Asset Management (FAM)
- PW–Greenways
- PW–Municipal Airport
- PW—Stormwater and Flood Management Utility
- PW–Transportation
- PW–Wastewater Utility
- PW–Water Utility

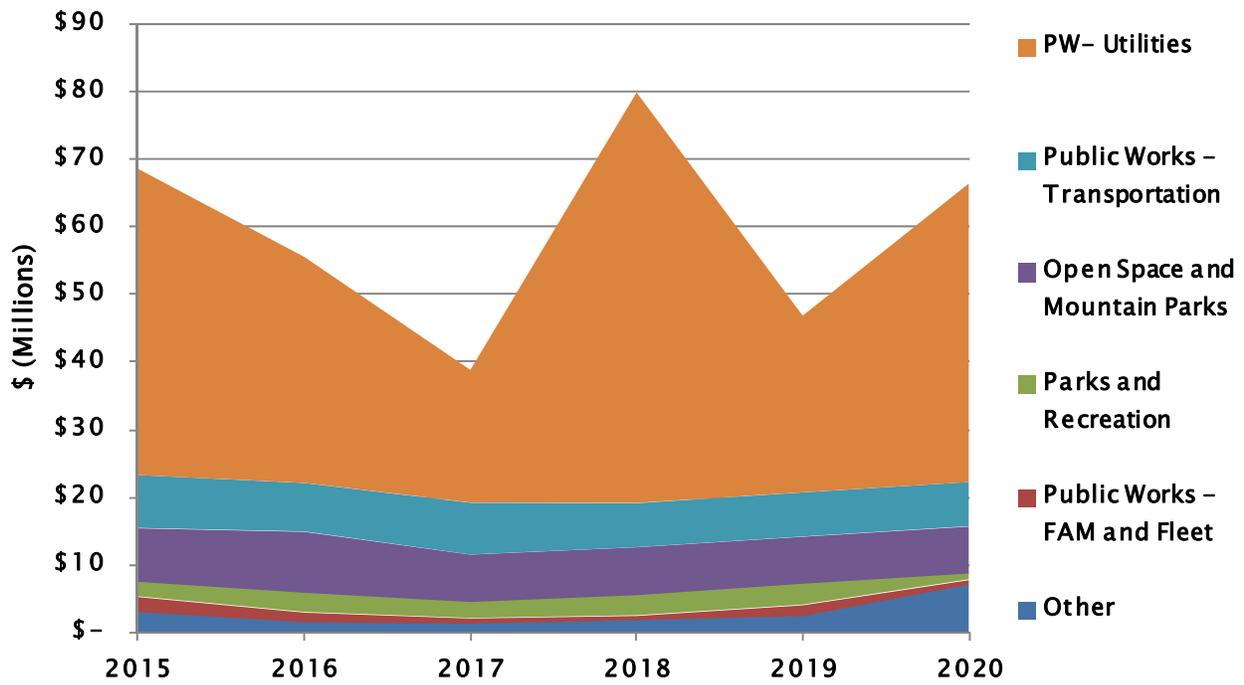
The Public Works divisions of Utilities and Transportation have the greatest allocations of resources in the 2015–2020 CIP. Major renovations to stormwater, water and wastewater facilities are primarily responsible for the large spikes in allocations during 2015, 2018, and 2020.

Many departments have dedicated revenue sources that keep their CIP funding relatively constant. For example, both Open Space & Mountain Parks and Parks & Recreation have dedicated revenue sources, and their CIP funding remains relatively constant throughout 2015–2019.

Figure 2–2 displays the share of total 2015–2020 CIP spending on each department.



Figure 2-2: 2015-2020 Funding by Department



*Other includes DUHMD/PS, Information Technology, Police, Public Works - Municipal Airport, and Public Works - Greenways*

Table 2-1: 2015-2020 Funding Summary By Department

SUMMARY OF ALL DEPARTMENTS

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
DUHMD / Parking Services	\$ 1,075,000	\$ 1,475,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 3,475,000	\$ -	\$ -
Information Technology	2,907,781	1,245,171	803,541	571,893	699,503	1,696,923	1,852,700	6,869,731	638,750	-
Open Space and Mountain Parks	2,264,000	7,964,000	9,065,300	7,065,300	7,125,300	6,975,300	6,985,300	45,180,500	8,205,486	(6,759,486.00)
Parks and Recreation	15,911,427	2,280,400	2,955,700	2,455,400	3,079,700	3,230,300	1,030,300	15,031,800	1,931,227	200,000
Police	950,000	850,000	100,000	-	-	-	-	950,000	-	-
Public Works - FAM and Fleet	8,031,000	2,195,000	1,417,000	769,000	600,000	1,600,000	650,000	7,231,000	-	800,000
Public Works - Greenways	27,332,670	320,441	320,441	320,441	320,441	320,441	320,441	1,922,646	736,716	-
Public Works - Municipal Airport	4,935,000	-	-	-	435,000	-	4,500,000	4,935,000	-	-
Public Works - Stormwater and Flood Management Utility	50,620,163	19,355,500	7,665,600	7,078,848	15,793,894	4,994,490	5,642,736	60,531,068	4,962,308	11,800,000
Public Works - Transportation	4,214,823	7,729,500	7,096,500	7,568,500	6,426,500	6,447,500	6,447,500	41,716,000	1,435,323	150,000
Public Works - Wastewater Utility	71,292,837	16,273,176	3,658,720	5,095,680	4,715,675	6,395,893	26,531,702	62,670,846	2,530,247	5,828,652
Public Works - Water Utility	118,183,883	9,780,007	22,169,251	7,492,162	40,354,650	14,791,830	12,068,899	106,656,799	6,766,391	8,407,355
<b>Total</b>	<b>\$ 307,718,584</b>	<b>\$ 69,468,195</b>	<b>\$ 55,652,053</b>	<b>\$ 38,817,224</b>	<b>\$ 79,950,663</b>	<b>\$ 46,852,677</b>	<b>\$ 66,429,578</b>	<b>\$ 357,170,390</b>	<b>\$ 27,206,448</b>	<b>\$ 20,426,521</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

## DOWNTOWN AND UNIVERSITY HILL MANAGEMENT DIVISION (DUHMD) / PARKING SERVICES

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
CAGID Parking Garage Access Equipment	\$ 1,075,000	\$ 1,075,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,075,000	\$ -	\$ -
Downtown 14th Street Parking Lot Improvements	-	25,000	25,000	25,000	25,000	25,000	25,000	150,000	-	-
Downtown Parking Garage Major Maintenance	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	-	-
Downtown/Pearl St Mall Amenities Replacement	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
<b>Subtotal</b>	<b>\$ 1,075,000</b>	<b>\$ 1,475,000</b>	<b>\$ 400,000</b>	<b>\$ 3,475,000</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Total</b>	<b>\$ 1,075,000</b>	<b>\$ 1,475,000</b>	<b>\$ 400,000</b>	<b>\$ 3,475,000</b>	<b>\$ -</b>	<b>\$ -</b>				

## INFORMATION TECHNOLOGY

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
End User Device Replacement	\$ -	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 2,748,000	\$ 458,000	\$ -
Network Hardware Replacement	1,301,331	160,671	148,041	113,893	116,503	612,223	648,000	1,799,331	150,000	-
Security Administration	77,450	11,500	54,000	-	-	6,700	6,700	78,900	5,250	-
Server Admin Hardware Replacement	767,000	615,000	10,500	-	81,000	35,000	740,000	1,481,500	25,500	-
VoIP Telephone System Replacement	633,000	-	133,000	-	-	500,000	-	633,000	-	-
Data Backup and Disaster Recovery	129,000	-	-	-	44,000	85,000	-	129,000	-	-
<b>Subtotal</b>	<b>\$ 2,907,781</b>	<b>\$ 1,245,171</b>	<b>\$ 803,541</b>	<b>\$ 571,893</b>	<b>\$ 699,503</b>	<b>\$ 1,696,923</b>	<b>\$ 1,852,700</b>	<b>\$ 6,869,731</b>	<b>\$ 638,750</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 2,907,781</b>	<b>\$ 1,245,171</b>	<b>\$ 803,541</b>	<b>\$ 571,893</b>	<b>\$ 699,503</b>	<b>\$ 1,696,923</b>	<b>\$ 1,852,700</b>	<b>\$ 6,869,731</b>	<b>\$ 638,750</b>	<b>\$ -</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

**OPEN SPACE AND MOUNTAIN PARKS**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Bear Canyon Road Flood Damage Repair and Mitigation	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -
Flagstaff Summit Improvements	250,000	250,000	-	-	-	-	-	250,000	-	-
OSMP North Trail Study Area (NTSA)	-	50,000	100,000	200,000	100,000	50,000	50,000	550,000	100,000	(650,000)
Restoration of Riparian and Wetland Habitat - Gregory Canyon Creek and Fancier Ponds Flood Repair	59,000	59,000	-	-	-	-	-	59,000	-	-
OSMP West Trail Study Area (WTSA)	-	-	550,000	450,000	600,000	50,000	50,000	1,700,000	1,119,486	(2,819,486)
Visitor Infrastructure - System Wide	-	-	250,000	200,000	200,000	500,000	500,000	1,650,000	350,000	-
OSMP East Trail Study Area (ETSA)	300,000	-	-	50,000	50,000	200,000	200,000	500,000	-	(200,000)
<b>Subtotal</b>	<b>\$ 759,000</b>	<b>\$ 509,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 950,000</b>	<b>\$ 800,000</b>	<b>\$ 800,000</b>	<b>\$ 4,859,000</b>	<b>\$ 1,569,486</b>	<b>\$ (3,669,486)</b>
<b>Capital Maintenance</b>										
Agriculture Facilities Projects	\$ -	\$ 100,000	\$ 110,000	\$ 110,000	\$ 120,000	\$ 120,000	\$ 130,000	\$ 690,000	\$ -	\$ (690,000)
Boulder Creek and South Boulder Creek Confidence Area Restoration Flood Repair	150,000	150,000	-	-	-	-	-	150,000	-	-
Cultural Resource/Facility Restoration	60,000	60,000	-	-	-	-	-	60,000	-	-
Hartnagle House Restoration	65,000	65,000	-	-	-	-	-	65,000	-	-
Lower Big Bluestem Trail Flood Repair	205,300	205,300	-	-	-	-	-	205,300	-	-
Royal Arch Trail Flood Repair	150,000	150,000	-	-	-	-	-	150,000	-	-
South Boulder Creek West Trail Flood Repair	100,000	100,000	-	-	-	-	-	100,000	-	-
South Mesa Road and Shanahan Ridge Trail	544,700	544,700	-	-	-	-	-	544,700	-	-
Viele House Foundation Repair	80,000	80,000	-	-	-	-	-	80,000	-	-
OSMP - Historical Structures & Trails - Stabilization and Restoration	-	-	355,300	355,300	355,300	355,300	355,300	1,776,500	686,000	-
<b>Subtotal</b>	<b>\$ 1,355,000</b>	<b>\$ 1,455,000</b>	<b>\$ 465,300</b>	<b>\$ 465,300</b>	<b>\$ 475,300</b>	<b>\$ 475,300</b>	<b>\$ 485,300</b>	<b>\$ 3,821,500</b>	<b>\$ 686,000</b>	<b>\$ (690,000)</b>
<b>Land and Asset Acquisition</b>										
Mineral Rights Acquisition	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 600,000	\$ 100,000	\$ -
OSMP Real Estate Acquisition Program	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	5,400,000	-
Water Rights Acquisition	-	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	200,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 5,700,000</b>	<b>\$ 34,200,000</b>	<b>\$ 5,700,000</b>	<b>\$ -</b>					
<b>New Capital Project</b>										
South Boulder Creek at Greenbelt Meadows	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -
South Boulder Creek Instream Flow	-	150,000	2,000,000	-	-	-	-	2,150,000	250,000	(2,400,000)
<b>Subtotal</b>	<b>\$ 150,000</b>	<b>\$ 300,000</b>	<b>\$ 2,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,300,000</b>	<b>\$ 250,000</b>	<b>\$ (2,400,000)</b>
<b>Total</b>	<b>\$ 2,264,000</b>	<b>\$ 7,964,000</b>	<b>\$ 9,065,300</b>	<b>\$ 7,065,300</b>	<b>\$ 7,125,300</b>	<b>\$ 6,975,300</b>	<b>\$ 6,985,300</b>	<b>\$ 45,180,500</b>	<b>\$ 8,205,486</b>	<b>\$ (6,759,486)</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

## PARKS AND RECREATION

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Rec Center Enhancements .25	\$ 460,000	\$ -	\$ 180,000	\$ 280,000	\$ -	\$ -	\$ -	\$ 460,000	\$ -	\$ -
ADA Compliance Improvements	800,000	100,000	100,000	200,000	200,000	-	-	600,000	200,000	-
Coot Lake Restoration	250,000	250,000	-	-	-	-	-	250,000	-	-
Emerald Ash Borer Response Measures	890,000	230,000	220,000	220,000	220,000	-	-	890,000	-	-
Recreation Center Enhancements	1,220,000	280,000	100,000	-	280,000	280,000	280,000	1,220,000	-	-
Artificial Turf Field Installation	1,500,000	-	500,000	500,000	500,000	-	-	1,500,000	-	-
Lighting Ordinance Implementation	500,000	-	250,000	250,000	-	-	-	500,000	-	-
Playground and Park Irrigation System Renovation	1,500,000	-	300,000	300,000	300,000	300,000	300,000	1,500,000	-	-
Playground and Park Irrigation System Renovation - Lottery	1,151,200	-	230,300	230,000	230,300	230,300	230,300	1,151,200	-	-
<b>Subtotal</b>	<b>\$ 8,271,200</b>	<b>\$ 860,000</b>	<b>\$ 1,880,300</b>	<b>\$ 1,980,000</b>	<b>\$ 1,730,300</b>	<b>\$ 810,300</b>	<b>\$ 810,300</b>	<b>\$ 8,071,200</b>	<b>\$ 200,000</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Historic Railroad Coach Restoration	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -
Pearl Street Mall Irrigation System Replacement	1,500,000	550,000	-	-	-	-	-	550,000	550,000	400,000
Pearl Street Mall Irrigation System Replacement - Lottery	-	200,000	-	-	-	-	-	200,000	400,000	-
Pool Replastering	230,000	75,000	-	-	-	-	-	75,000	155,000	-
Flatirons Golf Course Restroom and Path Repairs	-	-	200,000	-	-	-	-	200,000	-	(200,000)
Court Repairs and Renovation	280,000	-	-	-	280,000	-	-	280,000	-	-
Parking Lot Repair	860,000	-	-	-	220,000	420,000	220,000	860,000	-	-
<b>Subtotal</b>	<b>\$ 2,970,000</b>	<b>\$ 925,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ 420,000</b>	<b>\$ 220,000</b>	<b>\$ 2,265,000</b>	<b>\$ 1,105,000</b>	<b>\$ 200,000</b>
<b>Capital Planning Studies</b>										
Parks and Recreation Planning, Design, and Construction Standards	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -
Recreation Facility Strategic Plan	150,000	150,000	-	-	-	-	-	150,000	-	-
Urban Forest Management Plan	120,000	120,000	-	-	-	-	-	120,000	-	-
<b>Subtotal</b>	<b>\$ 370,000</b>	<b>\$ 370,000</b>	<b>\$ -</b>	<b>\$ 370,000</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Land and Asset Acquisition</b>										
Boulder Junction Rail Plaza	\$ 1,874,000	\$ -	\$ -	\$ -	\$ 374,000	\$ 1,500,000	\$ -	\$ 1,874,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 1,874,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 374,000</b>	<b>\$ 1,500,000</b>	<b>\$ -</b>	<b>\$ 1,874,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>New Capital Project</b>										
Boulder Junction Pocket Park	\$ 1,926,227	\$ -	\$ 750,000	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ 1,450,000	\$ 476,227	\$ -
Violet Park	500,000	-	-	-	-	500,000	-	500,000	-	-
<b>Subtotal</b>	<b>\$ 2,426,227</b>	<b>\$ -</b>	<b>\$ 750,000</b>	<b>\$ 350,000</b>	<b>\$ 350,000</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 1,950,000</b>	<b>\$ 476,227</b>	<b>\$ -</b>
<b>Transfer</b>										
Tributary Greenways Program - Lottery	\$ -	\$ 125,400	\$ 125,400	\$ 125,400	\$ 125,400	\$ -	\$ -	\$ 501,600	\$ 150,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 501,600</b>	<b>\$ 150,000</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 15,911,427</b>	<b>\$ 2,280,400</b>	<b>\$ 2,955,700</b>	<b>\$ 2,455,400</b>	<b>\$ 3,079,700</b>	<b>\$ 3,230,300</b>	<b>\$ 1,030,300</b>	<b>\$ 15,031,800</b>	<b>\$ 1,931,227</b>	<b>\$ 200,000</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**POLICE**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
Records Management System	\$ 950,000	\$ 850,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 950,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 950,000</b>	<b>\$ 850,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 950,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 950,000</b>	<b>\$ 850,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 950,000</b>	<b>\$ -</b>	<b>\$ -</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

## PUBLIC WORKS - FACILITIES AND ASSET MANAGEMENT (FAM) / FLEET

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
North Boulder Recreation Center - Replace Solar Thermal System	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ -
Outdoor Lighting Compliance Improvements	200,000	10,000	190,000	-	-	-	-	200,000	-	-
Stazio Refurbish Restrooms and Concessions	160,000	160,000	-	-	-	-	-	160,000	-	-
East Boulder Community Center Renovation	1,100,000	-	-	-	100,000	100,000	100,000	300,000	-	800,000
Tantra Shop Renovation	300,000	-	-	-	-	300,000	-	300,000	-	-
West Senior Center Major Maintenance & Rehab	700,000	-	-	-	-	700,000	-	700,000	-	-
<b>Subtotal</b>	<b>\$ 2,810,000</b>	<b>\$ 520,000</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>\$ 1,100,000</b>	<b>\$ 100,000</b>	<b>\$ 2,010,000</b>	<b>\$ -</b>	<b>\$ 800,000</b>
<b>Capital Maintenance</b>										
Boulder Museum of Contemporary Arts - Floor Replacement	\$ 90,000	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90,000	\$ -	\$ -
Fire Station #1 - Repair Concrete Floor in Vehicle Bays and Exterior Ramps	150,000	150,000	-	-	-	-	-	150,000	-	-
Mapleton Ballfields, Renovate Concessions and Restrooms +	100,000	100,000	-	-	-	-	-	100,000	-	-
Miscellaneous Facility DET Projects	715,000	465,000	50,000	50,000	50,000	50,000	50,000	715,000	-	-
Miscellaneous Facility Maintenance Projects	2,415,000	370,000	415,000	380,000	400,000	400,000	450,000	2,415,000	-	-
North Boulder Recreation Center Roof Replacement	450,000	450,000	-	-	-	-	-	450,000	-	-
East Boulder Community Center - Replace Pool Air Handlers	500,000	-	500,000	-	-	-	-	500,000	-	-
Replaster Pools +	80,000	-	80,000	-	-	-	-	80,000	-	-
Stazio Tensile Canopy Covering Replacement	132,000	-	132,000	-	-	-	-	132,000	-	-
Martin Park Shelter Major Maintenance	169,000	-	-	169,000	-	-	-	169,000	-	-
North Boulder Park Shelter Repair	120,000	-	-	120,000	-	-	-	120,000	-	-
<b>Subtotal</b>	<b>\$ 4,921,000</b>	<b>\$ 1,625,000</b>	<b>\$ 1,177,000</b>	<b>\$ 719,000</b>	<b>\$ 450,000</b>	<b>\$ 450,000</b>	<b>\$ 500,000</b>	<b>\$ 4,921,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Capital Planning Studies</b>										
Facility Assessments	\$ 300,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 300,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 8,031,000</b>	<b>\$ 2,195,000</b>	<b>\$ 1,417,000</b>	<b>\$ 769,000</b>	<b>\$ 600,000</b>	<b>\$ 1,600,000</b>	<b>\$ 650,000</b>	<b>\$ 7,231,000</b>	<b>\$ -</b>	<b>\$ 800,000</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

**PUBLIC WORKS - GREENWAYS**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Wonderland Creek (28th) Kalmia to Winding Trail	\$ 7,805,657	\$ 270,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 270,441	\$ 295,000	\$ -
Fourmile Canyon Creek Upland to Violet	6,102,205	-	270,441	270,441	270,441	270,441	270,441	1,352,205	-	-
Wonderland Creek Foothills to 30th	13,424,808	-	-	-	-	-	-	-	391,716	-
<b>Subtotal</b>	<b>\$ 27,332,670</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 1,622,646</b>	<b>\$ 686,716</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Miscellaneous Water Quality, Restoration and Trail Improvements	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000	\$ 50,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 300,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 27,332,670</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 1,922,646</b>	<b>\$ 736,716</b>	<b>\$ -</b>

**PUBLIC WORKS - MUNICIPAL AIRPORT**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
Rehabilitate Runway and Eastern Taxiway	\$ 4,935,000	\$ -	\$ -	\$ -	\$ 435,000	\$ -	\$ 4,500,000	\$ 4,935,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 4,935,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 435,000</b>	<b>\$ -</b>	<b>\$ 4,500,000</b>	<b>4,935,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 4,935,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 435,000</b>	<b>\$ -</b>	<b>\$ 4,500,000</b>	<b>4,935,000</b>	<b>\$ -</b>	<b>\$ -</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

## PUBLIC WORKS - STORMWATER AND FLOOD MANAGEMENT UTILITY

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Local Drainage Improvements	\$ -	\$ 780,000	\$ 811,200	\$ 843,648	\$ 877,394	\$ 912,490	\$ 948,989	5,173,721	\$ -	\$ -
Bear Canyon Creek Flood Mitigation	600,000	100,000	500,000	-	-	-	-	600,000	-	-
Boulder Creek Flood Mitigation	5,600,000	500,000	2,500,000	2,500,000	-	-	-	5,500,000	100,000	-
Gregory Creek Flood Mitigation	600,000	100,000	500,000	-	-	-	-	600,000	-	-
South Boulder Creek Flood Mitigation Phase I	24,000,000	250,000	750,000	750,000	10,150,000	-	-	11,900,000	300,000	11,800,000
Stormwater Quality Improvements	-	156,000	162,000	169,000	175,500	182,500	190,000	1,035,000	104,000	-
Upper Goose Creek Drainage	17,905,163	175,000	750,000	750,000	750,000	1,000,000	1,165,547	4,590,547	-	-
Utility Billing Computer System Replacement	115,000	50,000	-	-	-	-	65,000	115,000	-	-
Wonderland Creek - Foothills to 30th Street	-	10,000,000	-	-	-	-	-	10,000,000	3,033,092	-
Wonderland Creek at 28th Street	-	6,075,000	-	-	-	-	-	6,075,000	1,165,216	-
Fourmile Canyon Creek - Upland to Violet	-	-	500,000	500,000	1,000,000	1,500,000	1,250,000	4,750,000	-	-
Bluebell and King's Gulch Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
Skunk Creek Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
Twomile Canyon Creek Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
<b>Subtotal</b>	<b>\$ 50,620,163</b>	<b>\$ 18,186,000</b>	<b>\$ 6,473,200</b>	<b>\$ 5,812,648</b>	<b>\$ 14,452,894</b>	<b>\$ 3,594,990</b>	<b>\$ 3,619,536</b>	<b>\$ 52,139,268</b>	<b>\$ 4,702,308</b>	<b>\$ 11,800,000</b>
<b>Capital Maintenance</b>										
Storm Sewer Rehabilitation	\$ -	\$ 260,000	\$ 270,400	\$ 281,200	\$ 292,500	\$ 304,000	\$ 632,700	\$ 2,040,800	\$ -	\$ -
Transportation Coordination	-	312,000	324,500	337,500	351,000	365,000	633,000	2,323,000	260,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 572,000</b>	<b>\$ 594,900</b>	<b>\$ 618,700</b>	<b>\$ 643,500</b>	<b>\$ 669,000</b>	<b>\$ 1,265,700</b>	<b>\$ 4,363,800</b>	<b>\$ 260,000</b>	<b>\$ -</b>
<b>Land and Asset Acquisition</b>										
Preflood Property Acquisition	\$ -	\$ 500,000	\$ 500,000	\$ 550,000	\$ 600,000	\$ 633,000	\$ 660,000	\$ 3,443,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 550,000</b>	<b>\$ 600,000</b>	<b>\$ 633,000</b>	<b>\$ 660,000</b>	<b>\$ 3,443,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Transfer</b>										
Tributary Greenways Program - Stormwater & Flood	\$ -	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 585,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 585,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 50,620,163</b>	<b>\$ 19,355,500</b>	<b>\$ 7,665,600</b>	<b>\$ 7,078,848</b>	<b>\$ 15,793,894</b>	<b>\$ 4,994,490</b>	<b>\$ 5,642,736</b>	<b>\$ 60,531,068</b>	<b>\$ 4,962,308</b>	<b>\$ 11,800,000</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

**PUBLIC WORKS - TRANSPORTATION**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
28th St (Baseline to Iris)	\$ -	\$ 860,000	\$ 860,000	\$ -	\$ -	\$ -	\$ -	\$ 1,720,000	\$ -	\$ -
28th St (Baseline to Iris) II	-	470,000	470,000	-	-	-	-	940,000	-	-
Boulder Junction - Junction Pl Enhancements (Goose Creek to Bluff)	977,000	577,000	-	-	-	-	-	577,000	400,000	-
Miscellaneous Development Coordination	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	-	-
Signal Maintenance and Upgrade	-	-	-	-	200,000	-	-	200,000	200,000	-
<b>Subtotal</b>	<b>\$ 977,000</b>	<b>\$ 1,957,000</b>	<b>\$ 1,380,000</b>	<b>\$ 50,000</b>	<b>\$ 250,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 3,737,000</b>	<b>\$ 600,000</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Deficient Street Light Pole Replacement	\$ 1,280,823	\$ 321,000	\$ 265,000	\$ 265,000	\$ -	\$ 121,000	\$ 121,000	1,093,000	\$ 187,823	\$ -
Major Capital Reconstruction	-	800,000	800,000	800,000	800,000	800,000	800,000	4,800,000	-	-
Pedestrian Facilities - Repair, Replacement, ADA	-	629,000	629,000	629,000	629,000	629,000	629,000	3,774,000	-	-
<b>Subtotal</b>	<b>\$ 1,280,823</b>	<b>\$ 1,750,000</b>	<b>\$ 1,694,000</b>	<b>\$ 1,694,000</b>	<b>\$ 1,429,000</b>	<b>\$ 1,550,000</b>	<b>\$ 1,550,000</b>	<b>\$ 9,667,000</b>	<b>\$ 187,823</b>	<b>\$ -</b>
<b>Capital Planning Studies</b>										
Transportation Corridor Scoping and Prioritization - Canyon Blvd	\$ 200,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	100,000	\$ 100,000	\$ -
Transportation Corridor Scoping and Prioritization - East Arapahoe	200,000	100,000	100,000	-	-	-	-	200,000	-	-
Transportation Corridor Scoping and Prioritization - 30th/Colorado	200,000	-	100,000	100,000	-	-	-	200,000	-	-
<b>Subtotal</b>	<b>\$ 600,000</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>
<b>New Capital Project</b>										
Bikeway Facilities - Enhancements	\$ -	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 1,350,000	\$ -	\$ -
Boulder Junction - Development Coordination	825,000	75,000	75,000	75,000	-	-	-	225,000	450,000	150,000
Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
TIP Local Match/TMP Implementation	-	3,300,000	3,300,000	4,200,000	4,000,000	4,000,000	4,000,000	22,800,000	-	-
Boulder Junction - Traffic Signal at Bluff Street and 30th Street	228,000	-	-	228,000	-	-	-	228,000	-	-
Boulder Junction - Traffic Signal at Junction Place and Valmont	304,000	-	-	304,000	-	-	-	304,000	-	-
TIP Local Match/TMP Implementation II	-	-	-	470,000	300,000	400,000	400,000	1,570,000	-	-
<b>Subtotal</b>	<b>\$ 1,357,000</b>	<b>\$ 3,725,000</b>	<b>\$ 3,725,000</b>	<b>\$ 5,627,000</b>	<b>\$ 4,650,000</b>	<b>\$ 4,750,000</b>	<b>\$ 4,750,000</b>	<b>\$ 27,227,000</b>	<b>\$ 450,000</b>	<b>\$ 150,000</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

## PUBLIC WORKS - TRANSPORTATION (Cont.)

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Transfer</b>										
Tributary Greenways Program - Transportation -										
Transfer	\$ -	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 585,000	\$ 97,500	\$ -
<b>Subtotal</b>	\$ -	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 585,000	\$ 97,500	\$ -
<b>Total</b>	\$ 4,214,823	\$ 7,729,500	\$ 7,096,500	\$ 7,568,500	\$ 6,426,500	\$ 6,447,500	\$ 6,447,500	\$ 41,716,000	\$ 1,435,323	\$ 150,000

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

**PUBLIC WORKS - WASTEWATER UTILITY**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Utility Billing Computer System Replacement	\$ 115,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 65,000	\$ 115,000	\$ -	\$ -
Wastewater Treatment Activated Sludge	710,961	389,376	-	58,493	-	-	-	447,869	-	-
Wastewater Treatment Facility Instrumentation/Control	9,131,068	540,800	-	674,918	701,915	729,992	759,191	3,406,816	695,600	5,028,652
Wastewater Treatment Facility Permit Improvements - Funded	23,487,234	1,650,000	150,000	-	750,000	1,500,000	18,775,000	22,825,000	662,234	-
Marshall Landfill	100,000	-	100,000	-	-	-	-	100,000	-	-
Wastewater Treatment Facility Electrical	1,420,000	-	120,000	1,200,000	-	-	-	1,320,000	100,000	-
Wastewater Treatment Facility Laboratory	100,000	-	50,000	-	-	-	-	50,000	50,000	-
Wastewater Treatment Facility Pumps	448,413	-	150,000	-	-	-	-	150,000	298,413	-
Goose Creek Sanitary Sewer Interceptor Rehabilitation	2,019,578	-	-	-	25,000	647,590	1,346,988	2,019,578	-	-
<b>Subtotal</b>	<b>\$ 37,532,254</b>	<b>\$ 2,630,176</b>	<b>\$ 570,000</b>	<b>\$ 1,933,411</b>	<b>\$ 1,476,915</b>	<b>\$ 2,877,582</b>	<b>\$ 20,946,179</b>	<b>\$ 30,434,263</b>	<b>\$ 1,806,247</b>	<b>\$ 5,028,652</b>
<b>Capital Maintenance</b>										
Condition Assessment Program	\$ 5,173,721	\$ 780,000	\$ 811,200	\$ 843,648	\$ 877,394	\$ 912,490	\$ 948,989	\$ 5,173,721	\$ -	\$ -
IBM Lift Station Improvements	1,300,000	500,000	-	-	-	-	-	500,000	-	800,000
Sanitary Sewer Manhole Rehabilitation	1,483,660	208,000	216,320	224,973	233,972	243,331	253,064	1,379,660	104,000	-
Sanitary Sewer Rehabilitation	23,318,721	12,155,000	2,061,200	2,093,648	2,127,394	2,162,490	2,198,989	22,798,721	520,000	-
Collection System Monitoring	100,000	-	-	-	-	-	-	-	100,000	-
Wastewater Treatment Facility Digester Complex	2,200,000	-	-	-	-	200,000	2,000,000	2,200,000	-	-
Wastewater Treatment Facility Cogeneration	184,481	-	-	-	-	-	184,481	184,481	-	-
<b>Subtotal</b>	<b>\$ 33,760,583</b>	<b>\$ 13,643,000</b>	<b>\$ 3,088,720</b>	<b>\$ 3,162,269</b>	<b>\$ 3,238,760</b>	<b>\$ 3,518,311</b>	<b>\$ 5,585,523</b>	<b>\$ 32,236,583</b>	<b>\$ 724,000</b>	<b>\$ 800,000</b>
<b>Total</b>	<b>\$ 71,292,837</b>	<b>\$ 16,273,176</b>	<b>\$ 3,658,720</b>	<b>\$ 5,095,680</b>	<b>\$ 4,715,675</b>	<b>\$ 6,395,893</b>	<b>\$ 26,531,702</b>	<b>\$ 62,670,846</b>	<b>\$ 2,530,247</b>	<b>\$ 5,828,652</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

## PUBLIC WORKS - WATER UTILITY

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Barker Dam and Reservoir	\$ 498,560	\$ 378,560	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 378,560	\$ 120,000	\$ -
Betasso Water Treatment Facility	13,325,000	700,000	12,125,000	-	-	-	-	12,825,000	500,000	-
Devil's Thumb Security Fence	50,000	50,000	-	-	-	-	-	50,000	-	-
Sunshine Transmission Pipe	2,000,000	1,000,000	-	-	-	-	-	1,000,000	1,000,000	-
Water System Security Upgrades	808,434	150,000	150,000	150,000	150,000	90,000	118,434	808,434	-	-
Barker Dam Outlet	9,162,557	-	50,000	175,000	803,414	8,134,143	-	9,162,557	-	-
Boulder Reservoir Water Treatment Facility - Funded	164,000	-	164,000	-	-	-	-	164,000	-	-
Lakewood Hydroelectric / Pressure Reducing Facility	430,000	-	130,000	-	-	300,000	-	430,000	-	-
Utility Billing Computer System Replacement	225,000	100,000	-	-	-	-	125,000	225,000	-	-
Lakewood Dam	124,707	-	-	-	124,707	-	-	124,707	-	-
Pearl Street Hydroelectric / Pressure Reducing Facility	267,664	-	-	-	24,333	243,331	-	267,664	-	-
Green Lake 2 Dam	5,223,557	-	-	-	-	75,000	468,051	5,433,557	-	4,680,506
Witemyer Ponds - Funded	5,519,534	-	-	-	-	100,000	492,685	5,922,219	-	4,926,849
<b>Subtotal</b>	<b>\$ 37,799,013</b>	<b>\$ 2,378,560</b>	<b>\$ 12,619,000</b>	<b>\$ 325,000</b>	<b>\$ 1,102,454</b>	<b>\$ 8,942,474</b>	<b>\$ 1,204,170</b>	<b>\$ 26,571,658</b>	<b>\$ 1,620,000</b>	<b>\$ 9,607,355</b>
<b>Capital Maintenance</b>										
Barker Gravity Pipeline Repair	\$ -	\$ 378,560	\$ 667,416	\$ 612,436	\$ 636,933	\$ 662,410	\$ 688,907	\$ 3,646,662	\$ -	\$ -
Goose Lake Dam	20,000	20,000	-	-	-	-	-	20,000	-	-
Kohler Storage Tank	903,362	103,487	799,875	-	-	-	-	903,362	-	-
Lakewood Pipeline	846,730	270,400	-	-	-	316,330	-	586,730	260,000	-
Silver Lake Dam	75,000	75,000	-	-	-	-	-	75,000	-	-
Silver Lake Hydroelectric / PRV	150,000	150,000	-	-	-	-	-	150,000	-	-
Waterline Replacement	24,329,088	3,224,000	3,352,960	3,487,078	3,626,562	3,771,624	3,224,033	20,686,257	3,642,831	-
Watershed Improvements	260,000	80,000	80,000	-	-	-	100,000	260,000	-	-
Water Transmission Facilities (Zone 3)	250,000	-	1,200,000	-	-	250,000	-	1,450,000	-	(1,200,000)
Barker-Kossler Penstock Repair	116,986	-	-	116,986	-	-	-	116,986	-	-
Betasso Storage Tank	292,465	-	-	292,465	-	-	-	292,465	-	-
Sunshine Hydroelectric / Pressure Reducing Station	271,875	-	-	271,875	-	-	-	271,875	-	-
Water Transmission Facilities (Zone 2)	500,000	-	-	250,000	-	-	250,000	500,000	-	-
Betasso Hydroelectric / Pressure Reducing Facility	250,000	-	-	-	250,000	-	-	250,000	-	-
Water Transmission Facilities (Zone 1)	250,000	-	-	-	250,000	-	-	250,000	-	-
Farmer's Ditch	108,160	-	-	-	-	108,160	-	108,160	-	-
<b>Subtotal</b>	<b>\$ 28,623,666</b>	<b>\$ 4,301,447</b>	<b>\$ 6,100,251</b>	<b>\$ 5,030,840</b>	<b>\$ 4,763,495</b>	<b>\$ 5,108,524</b>	<b>\$ 4,262,940</b>	<b>\$ 29,567,497</b>	<b>\$ 3,902,831</b>	<b>\$ (1,200,000)</b>

Table 2-1: 2015-2020 Funding Summary By Department (Cont.)

**PUBLIC WORKS - WATER UTILITY (Cont.)**

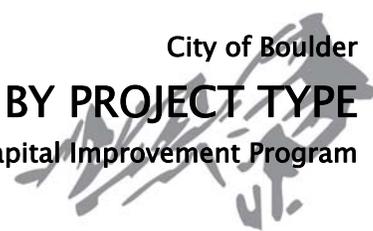
	<b>Estimated Total Cost</b>	<b>2015 Recommended</b>	<b>2016 Projected</b>	<b>2017 Projected</b>	<b>2018 Projected</b>	<b>2019 Projected</b>	<b>2020 Projected</b>	<b>2015 - 2020 Total</b>	<b>Previously Allocated Funding</b>	<b>Unfunded Amount</b>
<b>New Capital Project</b>										
Annexation Related Water System Expansion	\$ 5,000,000	\$ 2,500,000	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -	\$ -
NCWCD Conveyance - Carter Lake Pipeline	38,918,583	500,000	850,000	2,036,322	34,288,701	-	-	37,675,023	1,243,560	-
Barker Dam Hydroelectric	4,542,621	-	-	-	50,000	390,832	4,101,789	4,542,621	-	-
Source Water Monitoring	500,000	100,000	100,000	100,000	100,000	100,000	-	500,000	-	-
Carter Lake Hydroelectric	2,800,000	-	-	-	50,000	250,000	2,500,000	2,800,000	-	-
<b>Subtotal</b>	<b>\$ 51,761,204</b>	<b>\$ 3,100,000</b>	<b>\$ 3,450,000</b>	<b>\$ 2,136,322</b>	<b>\$ 34,488,701</b>	<b>\$ 740,832</b>	<b>\$ 6,601,789</b>	<b>\$ 50,517,644</b>	<b>\$ 1,243,560</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 118,183,883</b>	<b>\$ 9,780,007</b>	<b>\$ 22,169,251</b>	<b>\$ 7,492,162</b>	<b>\$ 40,354,650</b>	<b>\$ 14,791,830</b>	<b>\$ 12,068,899</b>	<b>\$ 106,656,799</b>	<b>\$ 6,766,391</b>	<b>\$ 8,407,355</b>

[This page is intentionally blank.]

City of Boulder

## FUNDING BY PROJECT TYPE

2015–2020 Capital Improvement Program



Each CIP project has been classified as a city investment in one of five project types:

- Capital Enhancement
- Capital Maintenance
- Capital Planning Studies
- Land Acquisition
- New Capital Project

There is an additional project type of *Transfers* that is used to indicate cross departmental funding collaborations. While these transfers are included in departmental totals, they are not included when calculating the total of all planned project funding in the CIP. The five project types are defined by the following criteria:

### **Capital Enhancement:**

- Construction resulting in the expansion or significant improvement of an existing facility or asset
- Projects have a discrete start and end date
- Projects are location specific
- Projects are typically over \$50,000 in total project cost, but do not have to be. Information Technology projects are typically over \$25,000 in total project cost
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years. Information Technology projects may be as short as 5 years.

### **Capital Maintenance:**

- Projects result in the repair, replacement, or renovation of an existing asset
- Projects may or may not have a discrete start and end date
- Projects are location specific or programs that cover a geographic area
- Projects are typically over \$50,000 in total project cost. Information Technology projects are typically over \$25,000 in total project cost.

### **Criteria for Capital Planning Studies:**

- Project results in the development of a study or plan which is intended to identify, plan, or prepare for the construction or acquisition of capital assets or capital program
- Projects have discrete start and end date
- Projects are typically for studies that are over \$50,000 in total cost.



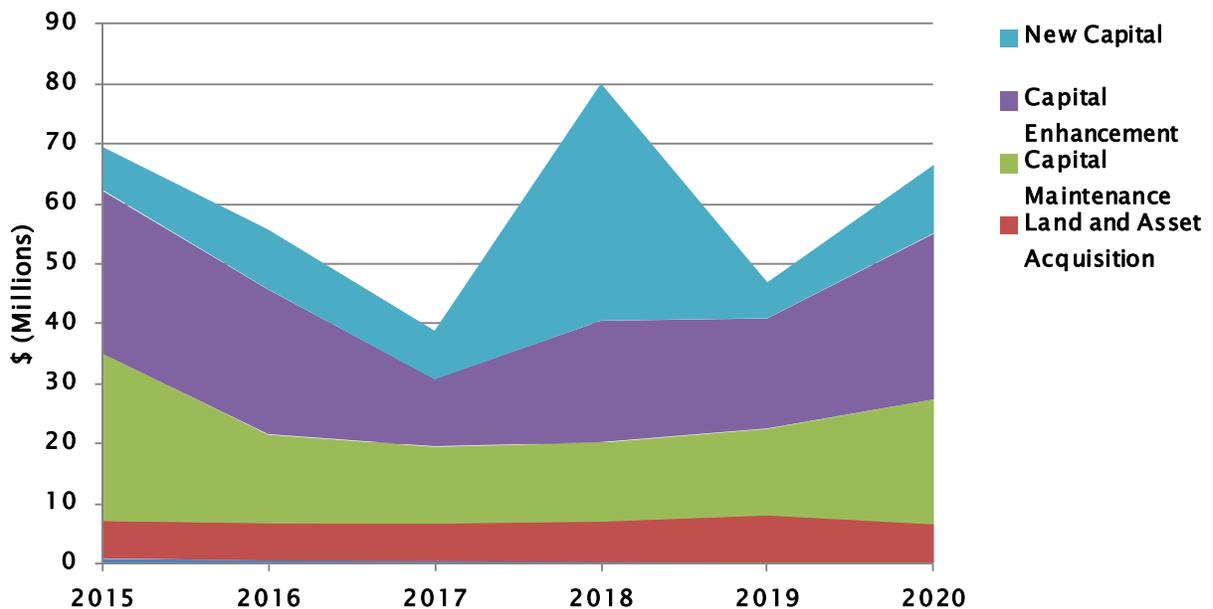
**Land & Asset Acquisition:**

- Project or program results in the acquisition of real property, such as land, mineral or water rights, or permanent easements
- Projects may have discrete start and end dates, or may be programmatic
- Projects or programs may be location specific or city-wide
- Projects or programs typically include acquisitions totaling over \$50,000

**Criteria for New Capital Project:**

- Projects resulting in the construction or acquisition of a new asset
- Construction resulting in additional square footage of an existing asset
- Projects have a discrete start and end date
- Projects are location specific
- Projects are typically over \$50,000 in total project cost, but do not have to be
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years.

**Figure 2-3: 2015-2020 Funding by Project Type**



*Other includes Capital Planning Studies and Transfers*



Figure 2-4: 2015-2020 Funding by Project Type Excluding Utilities

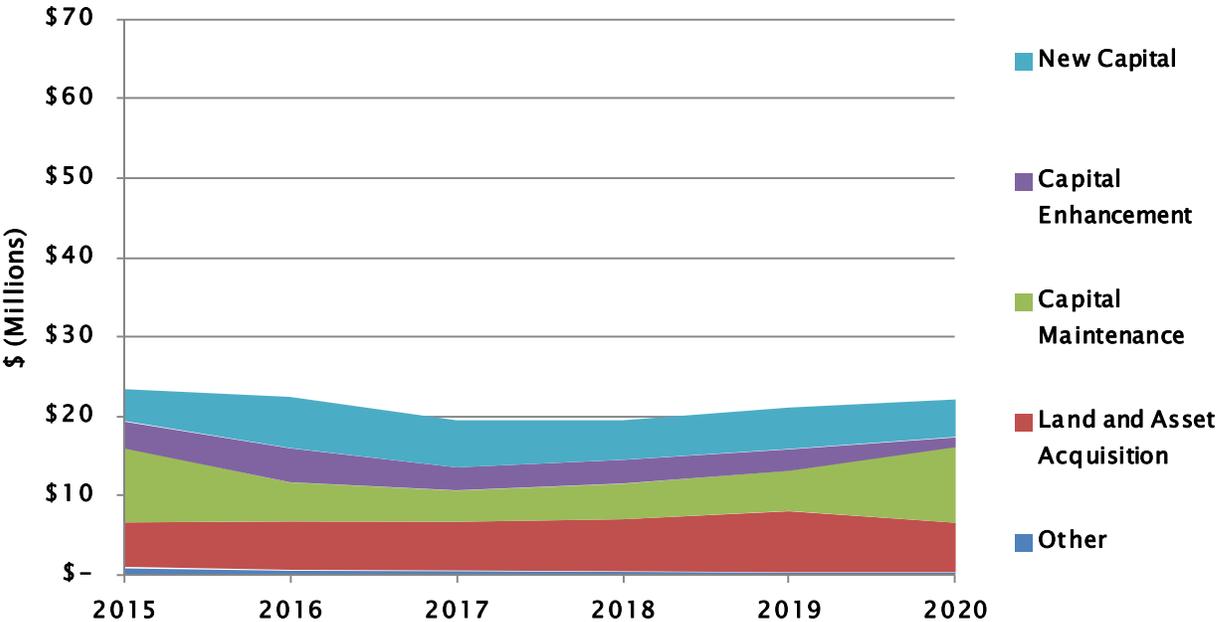


Table 2-2: 2015-2020 Funding Summary By Project Type

## SUMMARY OF ALL TYPES

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
Capital Enhancement	\$ 166,101,300	\$ 27,311,177	\$ 24,282,941	\$ 11,271,500	\$ 20,333,004	\$ 18,445,787	\$ 27,800,626	\$ 129,445,035	\$ 11,184,757	\$ 23,566,521
Capital Maintenance	82,778,853	27,891,618	14,673,712	12,712,002	13,084,558	14,338,058	20,672,163	103,372,111	7,554,404	(890,000)
Capital Planning Studies	1,270,000	620,000	250,000	150,000	50,000	50,000	50,000	1,170,000	100,000	-
Land and Asset Acquisition	1,874,000	6,200,000	6,200,000	6,250,000	6,674,000	7,833,000	6,360,000	39,517,000	5,700,000	-
New Capital	55,694,431	7,125,000	9,925,000	8,113,322	39,488,701	5,990,832	11,351,789	81,994,644	2,419,787	(2,250,000)
Transfer	-	320,400	320,400	320,400	320,400	195,000	195,000	1,671,600	247,500	-
<b>Total</b>	<b>\$ 307,718,584</b>	<b>\$ 69,468,195</b>	<b>\$ 55,652,053</b>	<b>\$ 38,817,224</b>	<b>\$ 79,950,663</b>	<b>\$ 46,852,677</b>	<b>\$ 66,429,578</b>	<b>\$ 357,170,390</b>	<b>\$ 27,206,448</b>	<b>\$ 20,426,521</b>

[This page is intentionally blank.]

Table 2-2: 2015-2020 Funding Summary By Project Type (Cont.)

## CAPITAL ENHANCEMENT

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
28th St (Baseline to Iris)	\$ -	\$ 1,330,000	\$ 1,330,000	\$ -	\$ -	\$ -	\$ -	\$ 2,660,000	\$ -	\$ -
ADA Compliance Improvements	800,000	100,000	100,000	200,000	200,000	-	-	600,000	200,000	-
Artificial Turf Field Installation	1,500,000	-	500,000	500,000	500,000	-	-	1,500,000	-	-
Barker Dam and Reservoir	498,560	378,560	-	-	-	-	-	378,560	120,000	-
Barker Dam Outlet	9,162,557	-	50,000	175,000	803,414	8,134,143	-	9,162,557	-	-
Bear Canyon Creek Flood Mitigation	600,000	100,000	500,000	-	-	-	-	600,000	-	-
Bear Canyon Road Flood Damage Repair and Mitigation	150,000	150,000	-	-	-	-	-	150,000	-	-
Betasso Water Treatment Facility	13,325,000	700,000	12,125,000	-	-	-	-	12,825,000	500,000	-
Bluebell and King's Gulch Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
Boulder Creek Flood Mitigation	5,600,000	500,000	2,500,000	2,500,000	-	-	-	5,500,000	100,000	-
Boulder Junction - Junction PI Enhancements (Goose Creek to Bluff)	977,000	577,000	-	-	-	-	-	577,000	400,000	-
Boulder Reservoir Water Treatment Facility - Funded	164,000	-	164,000	-	-	-	-	164,000	-	-
Coot Lake Restoration	250,000	250,000	-	-	-	-	-	250,000	-	-
Devil's Thumb Security Fence	50,000	50,000	-	-	-	-	-	50,000	-	-
East Boulder Community Center Renovation	1,100,000	-	-	-	100,000	100,000	100,000	300,000	-	800,000
Emerald Ash Borer Response Measures	890,000	230,000	220,000	220,000	220,000	-	-	890,000	-	-
Flagstaff Summit Improvements	250,000	250,000	-	-	-	-	-	250,000	-	-
Fourmile Canyon Creek Upland to Violet	6,102,205	-	770,441	770,441	1,270,441	1,770,441	1,520,441	6,102,205	-	-
Goose Creek Sanitary Sewer Interceptor Rehabilitation	2,019,578	-	-	-	25,000	647,590	1,346,988	2,019,578	-	-
Green Lake 2 Dam	5,223,557	-	-	-	-	75,000	468,051	543,051	-	4,680,506
Gregory Creek Flood Mitigation	600,000	100,000	500,000	-	-	-	-	600,000	-	-
Lakewood Dam	124,707	-	-	-	124,707	-	-	124,707	-	-
Lakewood Hydroelectric / Pressure Reducing Facility	430,000	-	130,000	-	-	300,000	-	430,000	-	-
Lighting Ordinance Implementation	500,000	-	250,000	250,000	-	-	-	500,000	-	-
Local Drainage Improvements	-	780,000	811,200	843,648	877,394	912,490	948,989	5,173,721	-	-
Marshall Landfill	100,000	-	100,000	-	-	-	-	100,000	-	-
Miscellaneous Development Coordination	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	-	-
North Boulder Recreation Center - Replace Solar Thermal System	350,000	350,000	-	-	-	-	-	350,000	-	-
OSMP East Trail Study Area (ETSA)	300,000	-	-	50,000	50,000	200,000	200,000	500,000	-	(200,000)
OSMP North Trail Study Area (NTSA)	-	50,000	100,000	200,000	100,000	50,000	50,000	550,000	100,000	(650,000)
OSMP West Trail Study Area (WTSA)	-	-	550,000	450,000	600,000	50,000	50,000	1,700,000	1,119,486	(2,819,486)
Outdoor Lighting Compliance Improvements	200,000	10,000	190,000	-	-	-	-	200,000	-	-

Table 2-2: 2015-2020 Funding Summary By Project Type (Cont.)

CAPITAL ENHANCEMENT (Cont.)

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
Pearl Street Hydroelectric / Pressure Reducing Facility	267,664	-	-	-	24,333	243,331	-	267,664	-	-
Playground and Park Irrigation System Renovation	2,651,200	-	530,300	530,000	530,300	530,300	530,300	2,651,200	-	-
Recreation Center Enhancements	1,680,000	280,000	280,000	280,000	280,000	280,000	280,000	1,680,000	-	-
Restoration of Riparian and Wetland Habitat - Gregory Canyon Creek and Fancier Ponds Flood Repair	59,000	59,000	-	-	-	-	-	59,000	-	-
Signal Maintenance and Upgrade	-	-	-	-	200,000	-	-	200,000	200,000	-
Skunk Creek Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
South Boulder Creek Flood Mitigation Phase I	24,000,000	250,000	750,000	750,000	10,150,000	-	-	11,900,000	300,000	11,800,000
Stazio Refurbish Restrooms and Concessions	160,000	160,000	-	-	-	-	-	160,000	-	-
Stormwater Quality Improvements	-	156,000	162,000	169,000	175,500	182,500	190,000	1,035,000	104,000	-
Sunshine Transmission Pipe	2,000,000	1,000,000	-	-	-	-	-	1,000,000	1,000,000	-
Tantra Shop Renovation	300,000	-	-	-	-	300,000	-	300,000	-	-
Tomile Canyon Creek Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
Upper Goose Creek Drainage	17,905,163	175,000	750,000	750,000	750,000	1,000,000	1,165,547	4,590,547	-	-
Utility Billing Computer System Replacement	455,000	200,000	-	-	-	-	255,000	455,000	-	-
Visitor Infrastructure - System Wide	-	-	250,000	200,000	200,000	500,000	500,000	1,650,000	350,000	-
Wastewater Treatment Activated Sludge	710,961	389,376	-	58,493	-	-	-	447,869	-	-
Wastewater Treatment Facility Electrical	1,420,000	-	120,000	1,200,000	-	-	-	1,320,000	100,000	-
Wastewater Treatment Facility Instrumentation/Control	9,131,068	540,800	-	674,918	701,915	729,992	759,191	3,406,816	695,600	5,028,652
Wastewater Treatment Facility Laboratory	100,000	-	50,000	-	-	-	-	50,000	50,000	-
Wastewater Treatment Facility Permit Improvements - Funded	23,487,234	1,650,000	150,000	-	750,000	1,500,000	18,775,000	22,825,000	662,234	-
Wastewater Treatment Facility Pumps	448,413	-	150,000	-	-	-	-	150,000	298,413	-
Water System Security Upgrades	808,434	150,000	150,000	150,000	150,000	90,000	118,434	808,434	-	-
West Senior Center Major Maintenance & Rehab	700,000	-	-	-	-	700,000	-	700,000	-	-
Witemyer Ponds - Funded	5,519,534	-	-	-	-	100,000	492,685	592,685	-	4,926,849
Wonderland Creek (28th) Kalmia to Winding Trail	7,805,657	6,345,441	-	-	-	-	-	6,345,441	1,460,216	-
Wonderland Creek Foothills to 30th	13,424,808	10,000,000	-	-	-	-	-	10,000,000	3,424,808	-
<b>Total</b>	<b>\$ 166,101,300</b>	<b>\$ 27,311,177</b>	<b>\$ 24,282,941</b>	<b>\$ 11,271,500</b>	<b>\$ 20,333,004</b>	<b>\$ 18,445,787</b>	<b>\$ 27,800,626</b>	<b>\$ 129,445,035</b>	<b>\$ 11,184,757</b>	<b>\$ 23,566,521</b>

Table 2-2: 2015-2020 Funding Summary By Project Type (Cont.)

## CAPITAL MAINTENANCE

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
Agriculture Facilities Projects	\$ -	\$ 100,000	\$ 110,000	\$ 110,000	\$ 120,000	\$ 120,000	\$ 130,000	\$ 690,000	\$ -	\$ (690,000)
Barker Gravity Pipeline Repair	-	378,560	667,416	612,436	636,933	662,410	688,907	3,646,662	-	-
Barker-Kossler Penstock Repair	116,986	-	-	116,986	-	-	-	116,986	-	-
Betasso Hydroelectric / Pressure Reducing Facility	250,000	-	-	-	250,000	-	-	250,000	-	-
Betasso Storage Tank	292,465	-	-	292,465	-	-	-	292,465	-	-
Boulder Creek and South Boulder Creek Confidence Area Restoration Flood Repair	150,000	150,000	-	-	-	-	-	150,000	-	-
Boulder Museum of Contemporary Arts - Floor Replacement	90,000	90,000	-	-	-	-	-	90,000	-	-
CAGID Parking Garage Access Equipment	1,075,000	1,075,000	-	-	-	-	-	1,075,000	-	-
Collection System Monitoring	100,000	-	-	-	-	-	-	-	100,000	-
Condition Assessment Program	5,173,721	780,000	811,200	843,648	877,394	912,490	948,989	5,173,721	-	-
Court Repairs and Renovation	280,000	-	-	-	280,000	-	-	280,000	-	-
Cultural Resource/Facility Restoration	60,000	60,000	-	-	-	-	-	60,000	-	-
Data Backup and Disaster Recovery	129,000	-	-	-	44,000	85,000	-	129,000	-	-
Deficient Street Light Pole Replacement	1,280,823	321,000	265,000	265,000	-	121,000	121,000	1,093,000	187,823	-
Downtown 14th Street Parking Lot Improvements	-	25,000	25,000	25,000	25,000	25,000	25,000	150,000	-	-
Downtown Parking Garage Major Maintenance	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	-	-
Downtown/Pearl St Mall Amenities Replacement	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
East Boulder Community Center - Replace Pool Air Handlers	500,000	-	500,000	-	-	-	-	500,000	-	-
End User Device Replacement	-	458,000	458,000	458,000	458,000	458,000	458,000	2,748,000	458,000	-
Farmer's Ditch	108,160	-	-	-	-	108,160	-	108,160	-	-
Fire Station #1 - Repair Concrete Floor in Vehicle Bays and Exterior Ramps	150,000	150,000	-	-	-	-	-	150,000	-	-
Flatirons Golf Course Restroom and Path Repairs	-	-	200,000	-	-	-	-	200,000	-	(200,000)
Goose Lake Dam	20,000	20,000	-	-	-	-	-	20,000	-	-
Hartnagle House Restoration	65,000	65,000	-	-	-	-	-	65,000	-	-
Historic Railroad Coach Restoration	100,000	100,000	-	-	-	-	-	100,000	-	-
IBM Lift Station Improvements	1,300,000	500,000	-	-	-	-	-	500,000	-	800,000
Kohler Storage Tank	903,362	103,487	799,875	-	-	-	-	903,362	-	-
Lakewood Pipeline	846,730	270,400	-	-	-	316,330	-	586,730	260,000	-
Lower Big Bluestem Trail Flood Repair	205,300	205,300	-	-	-	-	-	205,300	-	-
Major Capital Reconstruction	-	800,000	800,000	800,000	800,000	800,000	800,000	4,800,000	-	-
Mapleton Ballfields, Renovate Concessions and Restrooms +	100,000	100,000	-	-	-	-	-	100,000	-	-

Table 2-2: 2015-2020 Funding Summary By Project Type (Cont.)

CAPITAL MAINTENANCE (Cont.)

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
Martin Park Shelter Major Maintenance	169,000	-	-	169,000	-	-	-	169,000	-	-
Miscellaneous Facility DET Projects	715,000	465,000	50,000	50,000	50,000	50,000	50,000	715,000	-	-
Miscellaneous Facility Maintenance Projects	2,415,000	370,000	415,000	380,000	400,000	400,000	450,000	2,415,000	-	-
Miscellaneous Water Quality, Restoration and Trail Improvements	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	50,000	-
Network Hardware Replacement	1,301,331	160,671	148,041	113,893	116,503	612,223	648,000	1,799,331	150,000	-
North Boulder Park Shelter Repair	120,000	-	-	120,000	-	-	-	120,000	-	-
North Boulder Recreation Center Roof Replacement	450,000	450,000	-	-	-	-	-	450,000	-	-
OSMP - Historical Structures & Trails - Stabilization and Restoration	-	-	355,300	355,300	355,300	355,300	355,300	1,776,500	686,000	-
Parking Lot Repair	860,000	-	-	-	220,000	420,000	220,000	860,000	-	-
Pearl Street Mall Irrigation System Replacement	1,500,000	750,000	-	-	-	-	-	750,000	950,000	400,000
Pedestrian Facilities - Repair, Replacement, ADA	-	629,000	629,000	629,000	629,000	629,000	629,000	3,774,000	-	-
Pool Replastering	230,000	75,000	-	-	-	-	-	75,000	155,000	-
Records Management System	950,000	850,000	100,000	-	-	-	-	950,000	-	-
Rehabilitate Runway and Eastern Taxiway	4,935,000	-	-	-	435,000	-	4,500,000	4,935,000	-	-
Replaster Pools +	80,000	-	80,000	-	-	-	-	80,000	-	-
Royal Arch Trail Flood Repair	150,000	150,000	-	-	-	-	-	150,000	-	-
Sanitary Sewer Manhole Rehabilitation	1,483,660	208,000	216,320	224,973	233,972	243,331	253,064	1,379,660	104,000	-
Sanitary Sewer Rehabilitation	23,318,721	12,155,000	2,061,200	2,093,648	2,127,394	2,162,490	2,198,989	22,798,721	520,000	-
Security Administration	77,450	11,500	54,000	-	-	6,700	6,700	78,900	5,250	-
Server Admin Hardware Replacement	767,000	615,000	10,500	-	81,000	35,000	740,000	1,481,500	25,500	-
Silver Lake Dam	75,000	75,000	-	-	-	-	-	75,000	-	-
Silver Lake Hydroelectric / PRV	150,000	150,000	-	-	-	-	-	150,000	-	-
South Boulder Creek West Trail Flood Repair	100,000	100,000	-	-	-	-	-	100,000	-	-
South Mesa Road and Shanahan Ridge Trail	544,700	544,700	-	-	-	-	-	544,700	-	-
Stazio Tensile Canopy Covering Replacement	132,000	-	132,000	-	-	-	-	132,000	-	-
Storm Sewer Rehabilitation	-	260,000	270,400	281,200	292,500	304,000	632,700	2,040,800	-	-
Sunshine Hydroelectric / Pressure Reducing Station	271,875	-	-	271,875	-	-	-	271,875	-	-
Transportation Coordination	-	312,000	324,500	337,500	351,000	365,000	633,000	2,323,000	260,000	-
Viele House Foundation Repair	80,000	80,000	-	-	-	-	-	80,000	-	-
VoIP Telephone System Replacement	633,000	-	133,000	-	-	500,000	-	633,000	-	-
Water Transmission Facilities (Zone 1)	250,000	-	-	-	250,000	-	-	250,000	-	-
Water Transmission Facilities (Zone 2)	500,000	-	-	250,000	-	-	250,000	500,000	-	-
Water Transmission Facilities (Zone 3)	250,000	-	1,200,000	-	-	250,000	-	1,450,000	-	(1,200,000)
Waterline Replacement	24,329,088	3,224,000	3,352,960	3,487,078	3,626,562	3,771,624	3,224,033	20,686,257	3,642,831	-
Watershed Improvements	260,000	80,000	80,000	-	-	-	100,000	260,000	-	-
Wastewater Treatment Facility Cogeneration	184,481	-	-	-	-	-	184,481	184,481	-	-
Wastewater Treatment Facility Digester Complex	2,200,000	-	-	-	-	200,000	2,000,000	2,200,000	-	-
<b>Total</b>	<b>\$ 82,778,853</b>	<b>\$ 27,891,618</b>	<b>\$ 14,673,712</b>	<b>\$ 12,712,002</b>	<b>\$ 13,084,558</b>	<b>\$ 14,338,058</b>	<b>\$ 20,672,163</b>	<b>\$ 103,372,111</b>	<b>\$ 7,554,404</b>	<b>\$ (890,000)</b>

Table 2-2: 2015-2020 Funding Summary By Project Type (Cont.)

## CAPITAL PLANNING STUDIES

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
Facility Assessments	\$ 300,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000	\$ -	\$ -
Parks and Recreation Planning, Design, and Construction Standards	100,000	100,000	-	-	-	-	-	100,000	-	-
Recreation Facility Strategic Plan	150,000	150,000	-	-	-	-	-	150,000	-	-
Transportation Corridor Scoping and Prioritization - 30/Colorado	200,000	-	100,000	100,000	-	-	-	200,000	-	-
Transportation Corridor Scoping and Prioritization - Canyon Blvd	200,000	100,000	-	-	-	-	-	100,000	100,000	-
Transportation Corridor Scoping and Prioritization - East Arapahoe	200,000	100,000	100,000	-	-	-	-	200,000	-	-
Urban Forest Management Plan	120,000	120,000	-	-	-	-	-	120,000	-	-
<b>Total</b>	<b>\$ 1,270,000</b>	<b>\$ 620,000</b>	<b>\$ 250,000</b>	<b>\$ 150,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 1,170,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>

## LAND AND ASSET ACQUISITION

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
Boulder Junction Rail Plaza	\$ 1,874,000	\$ -	\$ -	\$ -	\$ 374,000	\$ 1,500,000	\$ -	\$ 1,874,000	\$ -	\$ -
Mineral Rights Acquisition	-	100,000	100,000	100,000	100,000	100,000	100,000	600,000	100,000	-
OSMP Real Estate Acquisition Program	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	5,400,000	-
Preflood Property Acquisition	-	500,000	500,000	550,000	600,000	633,000	660,000	3,443,000	-	-
Water Rights Acquisition	-	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	200,000	-
<b>Total</b>	<b>\$ 1,874,000</b>	<b>\$ 6,200,000</b>	<b>\$ 6,200,000</b>	<b>\$ 6,250,000</b>	<b>\$ 6,674,000</b>	<b>\$ 7,833,000</b>	<b>\$ 6,360,000</b>	<b>\$ 39,517,000</b>	<b>\$ 5,700,000</b>	<b>\$ -</b>

Table 2-2: 2015-2020 Funding Summary By Project Type (Cont.)

**NEW CAPITAL**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
Annexation Related Water System Expansion	\$ 5,000,000	\$ 2,500,000	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -	\$ -
Barker Dam Hydroelectric	4,542,621	-	-	-	50,000	390,832	4,101,789	4,542,621	-	-
Bikeway Facilities - Enhancements	-	225,000	225,000	225,000	225,000	225,000	225,000	1,350,000	-	-
Boulder Junction - Development Coordination	825,000	75,000	75,000	75,000	-	-	-	225,000	450,000	150,000
Boulder Junction - Traffic Signal at Bluff Street and 30th Street	228,000	-	-	228,000	-	-	-	228,000	-	-
Boulder Junction - Traffic Signal at Junction Place and Valmont	304,000	-	-	304,000	-	-	-	304,000	-	-
Boulder Junction Pocket Park	1,926,227	-	750,000	350,000	350,000	-	-	1,450,000	476,227	-
Carter Lake Hydroelectric	2,800,000	-	-	-	50,000	250,000	2,500,000	2,800,000	-	-
NCWCD Conveyance - Carter Lake Pipeline	38,918,583	500,000	850,000	2,036,322	34,288,701	-	-	37,675,023	1,243,560	-
Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
Source Water Monitoring	500,000	100,000	100,000	100,000	100,000	100,000	-	500,000	-	-
South Boulder Creek at Greenbelt Meadows	150,000	150,000	-	-	-	-	-	150,000	-	-
South Boulder Creek Instream Flow	-	150,000	2,000,000	-	-	-	-	2,150,000	250,000	(2,400,000)
TIP Local Match/TMP Implementation	-	3,300,000	3,300,000	4,200,000	4,000,000	4,000,000	4,000,000	22,800,000	-	-
TIP Local Match/TMP Implementation II	-	-	-	470,000	300,000	400,000	400,000	1,570,000	-	-
Violet Park	500,000	-	-	-	-	500,000	-	500,000	-	-
<b>Total</b>	<b>\$ 55,694,431</b>	<b>\$ 7,125,000</b>	<b>\$ 9,925,000</b>	<b>\$ 8,113,322</b>	<b>\$ 39,488,701</b>	<b>\$ 5,990,832</b>	<b>\$ 11,351,789</b>	<b>\$ 81,994,644</b>	<b>\$ 2,419,787</b>	<b>\$ (2,250,000)</b>

**TRANSFER**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
Tributary Greenways Program - Lottery	\$ -	\$ 125,400	\$ 125,400	\$ 125,400	\$ 125,400	\$ -	\$ -	\$ 501,600	\$ 150,000	\$ -
Tributary Greenways Program - Stormwater & Flood	-	97,500	97,500	97,500	97,500	97,500	97,500	585,000	-	-
Tributary Greenways Program - Transportation - Transfer	-	97,500	97,500	97,500	97,500	97,500	97,500	585,000	97,500	-
<b>Total</b>	<b>\$ -</b>	<b>\$ 320,400</b>	<b>\$ 320,400</b>	<b>\$ 320,400</b>	<b>\$ 320,400</b>	<b>\$ 195,000</b>	<b>\$ 195,000</b>	<b>\$ 1,671,600</b>	<b>\$ 247,500</b>	<b>\$ -</b>

[This page is intentionally blank.]

City of Boulder  
**FUNDING BY FUND**  
2015–2020 Capital Improvement Program

One or more of the following 17 funds and funding sources are proposed for the CIP projects:

- .25 Cent Sales Tax Fund
- Airport Fund
- Boulder Junction Improvement Fund
- Capital Development Fund
- Computer Replacement Fund
- Downtown Commercial District Fund
- Facility Renovation and Replacement Fund
- General Fund
- Greenways Program
- Lottery Fund
- Open Space Fund
- Permanent Parks and Recreation Fund
- Stormwater Utility Fund
- Transportation Fund
- Transportation Development Fund
- Wastewater Utility Fund
- Water Utility Fund

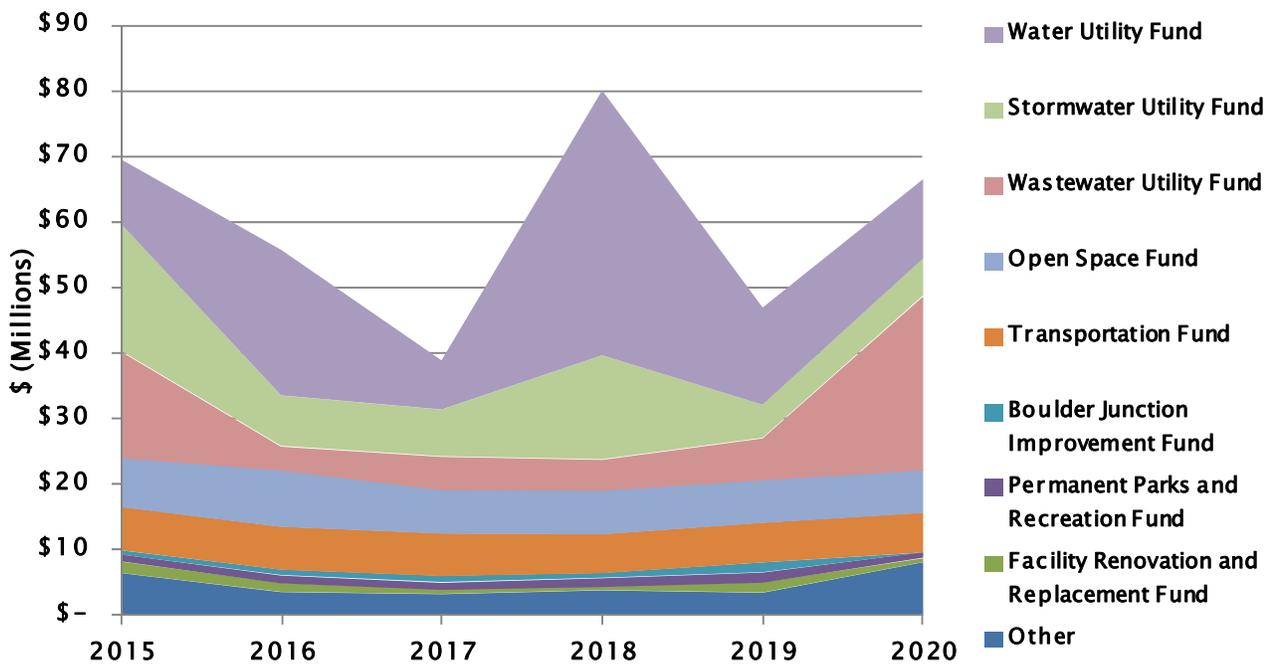
Detailed descriptions of all of the city’s funds are available in the introduction section of the Recommended 2014 Annual Budget – Volume 1. Many of the funds exist to handle dedicated revenues that can only be used for specific types of capital projects. These restrictions provide consistency in planning for project types, but also requires the city to allocate resources to a specific category of infrastructure and maintain existing priorities. The Greenways Program is not a fund as defined above, but is used within the CIP to illustrate the funding structure of the Public Works – Greenways workgroup. , and to call out the CIP projects associated with the work of Greenways

Similar to the department distributions described earlier in this section, the Transportation and Utility Funds are the largest contributors to the city’s 2015–2020 CIP.

Figure 2–5 shows the distribution of six year funding by fund.



Figure 2-5: 2015-2020 Funding by Fund



*Other includes the General Fund, .25 Cent Sales Tax Fund, Capital Development Fund, Airport Fund, Greenways Program, Downtown Commercial Fund, Transportation Development Fund, Lottery Fund, Computer Replacement Fund, and Telecommunications Fund.*

Table 2-3: 2015-2020 Funding Summary by Fund

2015 - 2020 CAPITAL IMPROVEMENTS PROGRAM - BY FUND

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
.25 Cent Sales Tax Fund	\$ 2,850,000	\$ 750,000	\$ 700,000	\$ 700,000	\$ 700,000	\$ -	\$ -	\$ 2,850,000	\$ 200,000	\$ (200,000)
Airport Fund	4,935,000	-	-	-	435,000	-	4,500,000	4,935,000	-	-
Boulder Junction Improvement Fund	6,134,227	652,000	825,000	957,000	724,000	1,500,000	-	4,658,000	1,326,227	150,000.00
Capital Development Fund	420,350	170,350	50,000	50,000	50,000	50,000	50,000	420,350	-	-
Computer Replacement Fund	2,274,781	1,245,171	670,541	571,893	699,503	1,196,923	1,852,700	6,236,731	638,750	-
Downtown Commercial District Fund	1,075,000	1,475,000	400,000	400,000	400,000	400,000	400,000	3,475,000	-	-
Facility Renovation and Replacement Fund	7,316,000	1,730,000	1,367,000	719,000	550,000	1,550,000	600,000	6,516,000	-	800,000
General Fund	1,244,650	1,144,650	100,000	-	-	-	-	1,244,650	-	-
Greenways	27,332,670	320,441	320,441	320,441	320,441	320,441	320,441	1,922,646	736,716	-
Lottery Fund	1,706,500	880,700	711,000	710,700	711,000	585,600	585,600	4,184,600	1,236,000	-
Open Space Fund	1,908,700	7,608,700	8,710,000	6,710,000	6,770,000	6,620,000	6,630,000	43,048,700	7,519,486	(6,759,486)
Permanent Parks and Recreation Fund	7,910,000	1,005,000	1,150,000	1,050,000	1,300,000	1,500,000	800,000	6,805,000	705,000	400,000
Stormwater Utility Fund	50,620,163	19,355,500	7,665,600	7,078,848	15,793,894	4,994,490	5,642,736	60,531,068	4,962,308	11,800,000
Telecommunications Fund	633,000	-	133,000	-	-	500,000	-	633,000	-	-
Transportation Fund	1,880,823	6,557,500	6,501,500	6,441,500	5,876,500	5,997,500	5,997,500	37,372,000	385,323	-
Transportation Development Fund	-	520,000	520,000	520,000	550,000	450,000	450,000	3,010,000	200,000	-
Wastewater Utility Fund	71,292,837	16,273,176	3,658,720	5,095,680	4,715,675	6,395,893	26,531,702	62,670,846	2,530,247	5,828,652
Water Utility Fund	118,183,883	9,780,007	22,169,251	7,492,162	40,354,650	14,791,830	12,068,899	106,656,799	6,766,391	8,407,355
<b>Total</b>	<b>\$ 307,718,584</b>	<b>\$ 69,468,195</b>	<b>\$ 55,652,053</b>	<b>\$ 38,817,224</b>	<b>\$ 79,950,663</b>	<b>\$ 46,852,677</b>	<b>\$ 66,429,578</b>	<b>\$ 357,170,390</b>	<b>\$ 27,206,448</b>	<b>\$ 20,426,521</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**.25 CENT SALES TAX FUND**

	<b>Estimated Total Cost</b>	<b>2015 Recommended</b>	<b>2016 Projected</b>	<b>2017 Projected</b>	<b>2018 Projected</b>	<b>2019 Projected</b>	<b>2020 Projected</b>	<b>2015 - 2020 Total</b>	<b>Previously Allocated Funding</b>	<b>Unfunded Amount</b>
<b>Capital Enhancement</b>										
Rec Center Enhancements .25	\$ 460,000	\$ -	\$ 180,000	\$ 280,000	\$ -	\$ -	\$ -	\$ 460,000	\$ -	\$ -
ADA Compliance Improvements	800,000	100,000	100,000	200,000	200,000	-	-	600,000	200,000	-
Coot Lake Restoration	50,000	50,000	-	-	-	-	-	50,000	-	-
Emeral Ash Borer Response Measures	890,000	230,000	220,000	220,000	220,000	-	-	890,000	-	-
<b>Subtotal</b>	<b>\$ 2,200,000</b>	<b>\$ 380,000</b>	<b>\$ 500,000</b>	<b>\$ 700,000</b>	<b>\$ 420,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,000,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Historic Railroad Coach Restoration	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -
Flatirons Golf Course Restroom and Path Repairs	-	-	200,000	-	-	-	-	200,000	-	(200,000)
Court Repairs and Renovation	280,000	-	-	-	280,000	-	-	280,000	-	-
<b>Subtotal</b>	<b>\$ 380,000</b>	<b>\$ 100,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ 280,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 580,000</b>	<b>\$ -</b>	<b>\$ (200,000)</b>
<b>Capital Planning Studies</b>										
Recreation Facility Strategic Plan	150,000	150,000	-	-	-	-	-	150,000	-	-
Urban Forest Management Plan	120,000	120,000	-	-	-	-	-	120,000	-	-
<b>Subtotal</b>	<b>\$ 270,000</b>	<b>\$ 270,000</b>	<b>\$ -</b>	<b>\$ 270,000</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Total</b>	<b>\$ 2,850,000</b>	<b>\$ 750,000</b>	<b>\$ 700,000</b>	<b>\$ 700,000</b>	<b>\$ 700,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,850,000</b>	<b>\$ 200,000</b>	<b>\$ (200,000)</b>

**AIRPORT FUND**

	<b>Estimated Total Cost</b>	<b>2015 Recommended</b>	<b>2016 Projected</b>	<b>2017 Projected</b>	<b>2018 Projected</b>	<b>2019 Projected</b>	<b>2020 Projected</b>	<b>2015 - 2020 Total</b>	<b>Previously Allocated Funding</b>	<b>Unfunded Amount</b>
<b>Capital Maintenance</b>										
Rehabilitate Runway and Eastern Taxiway	\$ 4,935,000	\$ -	\$ -	\$ -	\$ 435,000	\$ -	\$ 4,500,000	\$ 4,935,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 4,935,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 435,000</b>	<b>\$ -</b>	<b>\$ 4,500,000</b>	<b>\$ 4,935,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 4,935,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 435,000</b>	<b>\$ -</b>	<b>\$ 4,500,000</b>	<b>\$ 4,935,000</b>	<b>\$ -</b>	<b>\$ -</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**BOULDER JUNCTION IMPROVEMENT FUND**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Boulder Junction - Junction PI Enhancements (Goose Creek to Bluff)	\$ 977,000	\$ 577,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 577,000	\$ 400,000	\$ -
<b>Subtotal</b>	<b>\$ 977,000</b>	<b>\$ 577,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 577,000</b>	<b>\$ 400,000</b>	<b>\$ -</b>
<b>Land and Asset Acquisition</b>										
Boulder Junction Rail Plaza	\$ 1,874,000	\$ -	\$ -	\$ -	\$ 374,000	\$ 1,500,000	\$ -	\$ 1,874,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 1,874,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 374,000</b>	<b>\$ 1,500,000</b>	<b>\$ -</b>	<b>\$ 1,874,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>New Capital Project</b>										
Boulder Junction - Development Coordination	\$ 825,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ -	\$ -	\$ -	\$ 225,000	\$ 450,000	\$ 150,000
Boulder Junction Pocket Park	1,926,227	-	750,000	350,000	350,000	-	-	1,450,000	476,227	-
Boulder Junction - Traffic Signal at Bluff Street and 30th Street	228,000	-	-	228,000	-	-	-	228,000	-	-
Boulder Junction - Traffic Signal at Junction Place and Valmont	304,000	-	-	304,000	-	-	-	304,000	-	-
<b>Subtotal</b>	<b>\$ 3,283,227</b>	<b>\$ 75,000</b>	<b>\$ 825,000</b>	<b>\$ 957,000</b>	<b>\$ 350,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,207,000</b>	<b>\$ 926,227</b>	<b>\$ 150,000</b>
<b>Total</b>	<b>\$ 6,134,227</b>	<b>\$ 652,000</b>	<b>\$ 825,000</b>	<b>\$ 957,000</b>	<b>\$ 724,000</b>	<b>\$ 1,500,000</b>	<b>\$ -</b>	<b>\$ 4,658,000</b>	<b>\$ 1,326,227</b>	<b>\$ 150,000</b>

**CAPITAL DEVELOPMENT FUND**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
Miscellaneous Facility DET Projects	\$ 420,350	\$ 170,350	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 420,350	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 420,350</b>	<b>\$ 170,350</b>	<b>\$ 50,000</b>	<b>\$ 420,350</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Total</b>	<b>\$ 420,350</b>	<b>\$ 170,350</b>	<b>\$ 50,000</b>	<b>\$ 420,350</b>	<b>\$ -</b>	<b>\$ -</b>				

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**COMPUTER REPLACEMENT FUND**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
End User Device Replacement	\$ -	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 2,748,000	\$ 458,000	\$ -
Network Hardware Replacement	1,301,331	160,671	148,041	113,893	116,503	612,223	648,000	1,799,331	150,000	-
Security Administration	77,450	11,500	54,000	-	-	6,700	6,700	78,900	5,250	-
Server Admin Hardware Replacement	767,000	615,000	10,500	-	81,000	35,000	740,000	1,481,500	25,500	-
Data Backup and Disaster Recovery	129,000	-	-	-	44,000	85,000	-	129,000	-	-
<b>Subtotal</b>	<b>\$ 2,274,781</b>	<b>\$ 1,245,171</b>	<b>\$ 670,541</b>	<b>\$ 571,893</b>	<b>\$ 699,503</b>	<b>\$ 1,196,923</b>	<b>\$ 1,852,700</b>	<b>\$ 6,236,731</b>	<b>\$ 638,750</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 2,274,781</b>	<b>\$ 1,245,171</b>	<b>\$ 670,541</b>	<b>\$ 571,893</b>	<b>\$ 699,503</b>	<b>\$ 1,196,923</b>	<b>\$ 1,852,700</b>	<b>\$ 6,236,731</b>	<b>\$ 638,750</b>	<b>\$ -</b>

**DOWNTOWN COMMERCIAL DISTRICT FUND**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
CAGID Parking Garage Access Equipment	\$ 1,075,000	\$ 1,075,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,075,000	\$ -	\$ -
Downtown 14th Street Parking Lot Improvements	-	25,000	25,000	25,000	25,000	25,000	25,000	150,000	-	-
Downtown Parking Garage Major Maintenance	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	-	-
Downtown/Pearl St Mall Amenities Replacement	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
<b>Subtotal</b>	<b>\$ 1,075,000</b>	<b>\$ 1,475,000</b>	<b>\$ 400,000</b>	<b>\$ 3,475,000</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Total</b>	<b>\$ 1,075,000</b>	<b>\$ 1,475,000</b>	<b>\$ 400,000</b>	<b>\$ 3,475,000</b>	<b>\$ -</b>	<b>\$ -</b>				

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**FACILITY RENOVATION AND REPLACEMENT FUND**

	<b>Estimated Total Cost</b>	<b>2015 Recommended</b>	<b>2016 Projected</b>	<b>2017 Projected</b>	<b>2018 Projected</b>	<b>2019 Projected</b>	<b>2020 Projected</b>	<b>2015 - 2020 Total</b>	<b>Previously Allocated Funding</b>	<b>Unfunded Amount</b>
<b>Capital Enhancement</b>										
North Boulder Recreation Center - Replace Solar Thermal System	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ -
Outdoor Lighting Compliance Improvements	200,000	10,000	190,000	-	-	-	-	200,000	-	-
Stazio Refurbish Restrooms and Concessions	160,000	160,000	-	-	-	-	-	160,000	-	-
East Boulder Community Center Renovation	1,100,000	-	-	-	100,000	100,000	100,000	300,000	-	800,000
Tantra Shop Renovation	300,000	-	-	-	-	300,000	-	300,000	-	-
West Senior Center Major Maintenance & Rehab	700,000	-	-	-	-	700,000	-	700,000	-	-
<b>Subtotal</b>	<b>\$ 2,810,000</b>	<b>\$ 520,000</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>\$ 1,100,000</b>	<b>\$ 100,000</b>	<b>\$ 2,010,000</b>	<b>\$ -</b>	<b>\$ 800,000</b>
<b>Capital Maintenance</b>										
Boulder Museum of Contemporary Arts - Floor Replacement	\$ 90,000	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90,000	\$ -	\$ -
Fire Station #1 - Repair Concrete Floor in Vehicle Bays and Exterior Ramps	150,000	150,000	-	-	-	-	-	150,000	-	-
Mapleton Ballfields, Renovate Concessions and Restrooms +	100,000	100,000	-	-	-	-	-	100,000	-	-
Miscellaneous Facility Maintenance Projects	2,415,000	370,000	415,000	380,000	400,000	400,000	450,000	2,415,000	-	-
North Boulder Recreation Center Roof Replacement	450,000	450,000	-	-	-	-	-	450,000	-	-
East Boulder Community Center - Replace Pool Air Handlers	500,000	-	500,000	-	-	-	-	500,000	-	-
Replaster Pools +	80,000	-	80,000	-	-	-	-	80,000	-	-
Stazio Tensile Canopy Covering Replacement	132,000	-	132,000	-	-	-	-	132,000	-	-
Martin Park Shelter Major Maintenance	169,000	-	-	169,000	-	-	-	169,000	-	-
North Boulder Park Shelter Repair	120,000	-	-	120,000	-	-	-	120,000	-	-
<b>Subtotal</b>	<b>\$ 4,206,000</b>	<b>\$ 1,160,000</b>	<b>\$ 1,127,000</b>	<b>\$ 669,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 450,000</b>	<b>\$ 4,206,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Capital Planning Studies</b>										
Facility Assessments	\$ 300,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 300,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 7,316,000</b>	<b>\$ 1,730,000</b>	<b>\$ 1,367,000</b>	<b>\$ 719,000</b>	<b>\$ 550,000</b>	<b>\$ 1,550,000</b>	<b>\$ 600,000</b>	<b>\$ 6,516,000</b>	<b>\$ -</b>	<b>\$ 800,000</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

## GENERAL FUND

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
Records Management System	\$ 950,000	\$ 850,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 950,000	\$ -	\$ -
Miscellaneous Facility DET Projects	294,650	294,650	-	-	-	-	-	294,650	-	-
<b>Subtotal</b>	<b>\$ 1,244,650</b>	<b>\$ 1,144,650</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,244,650</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 1,244,650</b>	<b>\$ 1,144,650</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,244,650</b>	<b>\$ -</b>	<b>\$ -</b>

## GREENWAYS PROGRAM

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Wonderland Creek (28th) Kalmia to Winding Trail	\$ 7,805,657	\$ 270,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 270,441	\$ 295,000	\$ -
Fourmile Canyon Creek Upland to Violet	6,102,205	-	270,441	270,441	270,441	270,441	270,441	1,352,205	-	-
Wonderland Creek Foothills to 30th	13,424,808	-	-	-	-	-	-	-	391,716	-
<b>Subtotal</b>	<b>\$ 27,332,670</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 1,622,646</b>	<b>\$ 686,716</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Miscellaneous Water Quality, Restoration and Trail Improvements	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000	\$ 50,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 300,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 27,332,670</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 1,922,646</b>	<b>\$ 736,716</b>	<b>\$ -</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**LOTTERY FUND**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Bear Canyon Road Flood Damage Repair and Mitigation	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -
Coot Lake Restoration	200,000	200,000	-	-	-	-	-	200,000	-	-
Playground and Park Irrigation System Renovation - Lottery	1,151,200	-	230,300	230,000	230,300	230,300	230,300	1,151,200	-	-
<b>Subtotal</b>	<b>\$ 1,501,200</b>	<b>\$ 350,000</b>	<b>\$ 230,300</b>	<b>\$ 230,000</b>	<b>\$ 230,300</b>	<b>\$ 230,300</b>	<b>\$ 230,300</b>	<b>\$ 1,501,200</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Lower Big Bluestem Trail Flood Repair	\$ 205,300	\$ 205,300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 205,300	\$ -	\$ -
Pearl Street Mall Irrigation System Replacement - Lottery	-	200,000	-	-	-	-	-	200,000	400,000	-
OSMP - Historical Structures & Trails - Stabilization and Restoration	-	-	355,300	355,300	355,300	355,300	355,300	1,776,500	686,000	-
<b>Subtotal</b>	<b>\$ 205,300</b>	<b>\$ 405,300</b>	<b>\$ 355,300</b>	<b>\$ 2,181,800</b>	<b>\$ 1,086,000</b>	<b>\$ -</b>				
<b>Transfer</b>										
Tributary Greenways Program - Lottery	\$ -	\$ 125,400	\$ 125,400	\$ 125,400	\$ 125,400	\$ -	\$ -	\$ 501,600	\$ 150,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 501,600</b>	<b>\$ 150,000</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 1,706,500</b>	<b>\$ 880,700</b>	<b>\$ 711,000</b>	<b>\$ 710,700</b>	<b>\$ 711,000</b>	<b>\$ 585,600</b>	<b>\$ 585,600</b>	<b>\$ 4,184,600</b>	<b>\$ 1,236,000</b>	<b>\$ -</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

## OPEN SPACE FUND

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Flagstaff Summit Improvements	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -
OSMP North Trail Study Area (NTSA)	-	50,000	100,000	200,000	100,000	50,000	50,000	550,000	100,000	(650,000)
Restoration of Riparian and Wetland Habitat - Gregory canyon Creek and Fancier Ponds Flood Repair	59,000	59,000	-	-	-	-	-	59,000	-	-
OSMP West Trail Study Area (WTSA)	-	-	550,000	450,000	600,000	50,000	50,000	1,700,000	1,119,486	(2,819,486)
Visitor Infrastructure - System Wide	-	-	250,000	200,000	200,000	500,000	500,000	1,650,000	350,000	-
OSMP East Trail Study Area (ETSA)	300,000	-	-	50,000	50,000	200,000	200,000	500,000	-	(200,000)
<b>Subtotal</b>	<b>\$ 609,000</b>	<b>\$ 359,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 950,000</b>	<b>\$ 800,000</b>	<b>\$ 800,000</b>	<b>\$ 4,709,000</b>	<b>\$ 1,569,486</b>	<b>\$ (3,669,486)</b>
<b>Capital Maintenance</b>										
Agriculture Facilities Projects	\$ -	\$ 100,000	\$ 110,000	\$ 110,000	\$ 120,000	\$ 120,000	\$ 130,000	\$ 690,000	\$ -	\$ (690,000)
Boulder Creek and South Boulder Creek Confidence Area Restoration Flood Repair	150,000	150,000	-	-	-	-	-	150,000	-	-
Cultural Resource/Facility Restoration	60,000	60,000	-	-	-	-	-	60,000	-	-
Hartnagle House Restoration	65,000	65,000	-	-	-	-	-	65,000	-	-
Royal Arch Trail Flood Repair	150,000	150,000	-	-	-	-	-	150,000	-	-
South Boulder Creek West Trail Flood Repair	100,000	100,000	-	-	-	-	-	100,000	-	-
South Mesa Road and Shanahan Ridge Trail	544,700	544,700	-	-	-	-	-	544,700	-	-
Viele House Foundation Repair	80,000	80,000	-	-	-	-	-	80,000	-	-
<b>Subtotal</b>	<b>\$ 1,149,700</b>	<b>\$ 1,249,700</b>	<b>\$ 110,000</b>	<b>\$ 110,000</b>	<b>\$ 120,000</b>	<b>\$ 120,000</b>	<b>\$ 130,000</b>	<b>\$ 1,839,700</b>	<b>\$ -</b>	<b>\$ (690,000)</b>
<b>Land and Asset Acquisition</b>										
Mineral Rights Acquisition	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 600,000	\$ 100,000	\$ -
OSMP Real Estate Acquisition Program	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	5,400,000	-
Water Rights Acquisition	-	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	200,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 5,700,000</b>	<b>\$ 34,200,000</b>	<b>\$ 5,700,000</b>	<b>\$ -</b>					
<b>New Capital Project</b>										
South Boulder Creek at Greenbelt Meadow s	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -
South Boulder Creek Instream Flow	-	150,000	2,000,000	-	-	-	-	2,150,000	250,000	(2,400,000)
<b>Subtotal</b>	<b>\$ 150,000</b>	<b>\$ 300,000</b>	<b>\$ 2,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,300,000</b>	<b>\$ 250,000</b>	<b>\$ (2,400,000)</b>
<b>Total</b>	<b>\$ 1,908,700</b>	<b>\$ 7,608,700</b>	<b>\$ 8,710,000</b>	<b>\$ 6,710,000</b>	<b>\$ 6,770,000</b>	<b>\$ 6,620,000</b>	<b>\$ 6,630,000</b>	<b>\$ 43,048,700</b>	<b>\$ 7,519,486</b>	<b>\$ (6,759,486)</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**PERMANENT PARKS AND RECREATION FUND**

	<b>Estimated Total Cost</b>	<b>2015 Recommended</b>	<b>2016 Projected</b>	<b>2017 Projected</b>	<b>2018 Projected</b>	<b>2019 Projected</b>	<b>2020 Projected</b>	<b>2015 - 2020 Total</b>	<b>Previously Allocated Funding</b>	<b>Unfunded Amount</b>
<b>Capital Enhancement</b>										
Recreation Center Enhancements	\$ 1,220,000	\$ 280,000	\$ 100,000	\$ -	\$ 280,000	\$ 280,000	\$ 280,000	\$ 1,220,000		
Artificial Turf Field Installation	1,500,000	-	500,000	500,000	500,000	-	-	1,500,000	-	-
Lighting Ordinance Implementation	500,000	-	250,000	250,000	-	-	-	500,000	-	-
Playground and Park Irrigation System Renovation	1,500,000	-	300,000	300,000	300,000	300,000	300,000	1,500,000	-	-
<b>Subtotal</b>	<b>\$ 4,720,000</b>	<b>\$ 280,000</b>	<b>\$ 1,150,000</b>	<b>\$ 1,050,000</b>	<b>\$ 1,080,000</b>	<b>\$ 580,000</b>	<b>\$ 580,000</b>	<b>\$ 4,720,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Pearl Street Mall Irrigation System Replacement	\$ 1,500,000	\$ 550,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000	\$ 400,000
Pool Replastering	230,000	75,000	-	-	-	-	-	75,000	155,000	-
Parking Lot Repair	860,000	-	-	-	220,000	420,000	220,000	860,000	-	-
<b>Subtotal</b>	<b>\$ 2,590,000</b>	<b>\$ 625,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 220,000</b>	<b>\$ 420,000</b>	<b>\$ 220,000</b>	<b>\$ 1,485,000</b>	<b>\$ 705,000</b>	<b>\$ 400,000</b>
<b>Capital Planning Studies</b>										
Parks and Recreation Planning, Design, and Construction Standards	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>New Capital Project</b>										
Violet Park	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 7,910,000</b>	<b>\$ 1,005,000</b>	<b>\$ 1,150,000</b>	<b>\$ 1,050,000</b>	<b>\$ 1,300,000</b>	<b>\$ 1,500,000</b>	<b>\$ 800,000</b>	<b>\$ 6,805,000</b>	<b>\$ 705,000</b>	<b>\$ 400,000</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

## STORMWATER AND FLOOD MANAGEMENT UTILITY FUND

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Local Drainage Improvements	\$ -	\$ 780,000	\$ 811,200	\$ 843,648	\$ 877,394	\$ 912,490	\$ 948,989	5,173,721	\$ -	\$ -
Bear Canyon Creek Flood Mitigation	600,000	100,000	500,000	-	-	-	-	600,000	-	-
Boulder Creek Flood mitigation	5,600,000	500,000	2,500,000	2,500,000	-	-	-	5,500,000	100,000	-
Gregory Creek Flood Mitigation	600,000	100,000	500,000	-	-	-	-	600,000	-	-
South Boulder Creek Flood Mitigation Phase I	24,000,000	250,000	750,000	750,000	10,150,000	-	-	11,900,000	300,000	11,800,000
Stormwater Quality Improvements	-	156,000	162,000	169,000	175,500	182,500	190,000	1,035,000	104,000	-
Upper Goose Creek Drainage	17,905,163	175,000	750,000	750,000	750,000	1,000,000	1,165,547	4,590,547	-	-
Utility Billing Computer System Replacement	115,000	50,000	-	-	-	-	65,000	115,000	-	-
Wonderland Creek - Foothills to 30th Street	-	10,000,000	-	-	-	-	-	10,000,000	3,033,092	-
Wonderland Creek at 28th Street	-	6,075,000	-	-	-	-	-	6,075,000	1,165,216	-
Fourmile Canyon Creek - Upland to Violet	-	-	500,000	500,000	1,000,000	1,500,000	1,250,000	4,750,000	-	-
Bluebell and King's Gultch Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
Skunk Creek Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
Twomile Canyon Creek Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
<b>Subtotal</b>	<b>\$ 50,620,163</b>	<b>\$ 18,186,000</b>	<b>\$ 6,473,200</b>	<b>\$ 5,812,648</b>	<b>\$ 14,452,894</b>	<b>\$ 3,594,990</b>	<b>\$ 3,619,536</b>	<b>\$ 52,139,268</b>	<b>\$ 4,702,308</b>	<b>\$ 11,800,000</b>
<b>Capital Maintenance</b>										
Storm Sewer Rehabilitation	\$ -	\$ 260,000	\$ 270,400	\$ 281,200	\$ 292,500	\$ 304,000	\$ 632,700	\$ 2,040,800	\$ -	\$ -
Transportation Coordination	-	312,000	324,500	337,500	351,000	365,000	633,000	2,323,000	260,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 572,000</b>	<b>\$ 594,900</b>	<b>\$ 618,700</b>	<b>\$ 643,500</b>	<b>\$ 669,000</b>	<b>\$ 1,265,700</b>	<b>\$ 4,363,800</b>	<b>\$ 260,000</b>	<b>\$ -</b>
<b>Land and Asset Acquisition</b>										
Preflood Property Acquisition	\$ -	\$ 500,000	\$ 500,000	\$ 550,000	\$ 600,000	\$ 633,000	\$ 660,000	\$ 3,443,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 550,000</b>	<b>\$ 600,000</b>	<b>\$ 633,000</b>	<b>\$ 660,000</b>	<b>\$ 3,443,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Transfer</b>										
Tributary Greenways Program - Stormwater & Flood	\$ -	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 585,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 585,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 50,620,163</b>	<b>\$ 19,355,500</b>	<b>\$ 7,665,600</b>	<b>\$ 7,078,848</b>	<b>\$ 15,793,894</b>	<b>\$ 4,994,490</b>	<b>\$ 5,642,736</b>	<b>\$ 60,531,068</b>	<b>\$ 4,962,308</b>	<b>\$ 11,800,000</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**TELECOMMUNICATIONS FUND**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
VoIP Telephone System Replacement	\$ 633,000	\$ -	\$ 133,000	\$ -	\$ -	\$ 500,000	\$ -	\$ 633,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 633,000</b>	<b>\$ -</b>	<b>\$ 133,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 633,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 633,000</b>	<b>\$ -</b>	<b>\$ 133,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 633,000</b>	<b>\$ -</b>	<b>\$ -</b>

**TRANSPORTATION DEVELOPMENT FUND**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
28th St (Baseline to Iris) II	\$ -	\$ 470,000	\$ 470,000	\$ -	\$ -	\$ -	\$ -	\$ 940,000	\$ -	\$ -
Miscellaneous Development Coordination	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	-	-
Signal Maintenance and Upgrade	-	-	-	-	200,000	-	-	200,000	200,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 520,000</b>	<b>\$ 520,000</b>	<b>\$ 50,000</b>	<b>\$ 250,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 1,440,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>
<b>New Capital Project</b>										
TIP Local Match/TMP Implementation II	\$ -	\$ -	\$ -	\$ 470,000	\$ 300,000	\$ 400,000	\$ 400,000	\$ 1,570,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 470,000</b>	<b>\$ 300,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 1,570,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ -</b>	<b>\$ 520,000</b>	<b>\$ 520,000</b>	<b>\$ 520,000</b>	<b>\$ 550,000</b>	<b>\$ 450,000</b>	<b>\$ 450,000</b>	<b>\$ 3,010,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

## TRANSPORTATION FUND

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
28th St (Baseline to Iris)	\$ -	\$ 860,000	\$ 860,000	\$ -	\$ -	\$ -	\$ -	\$ 1,720,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 860,000</b>	<b>\$ 860,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,720,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Deficient Street Light Pole Replacement	\$ 1,280,823	\$ 321,000	\$ 265,000	\$ 265,000	\$ -	\$ 121,000	\$ 121,000	1,093,000	\$ 187,823	\$ -
Major Capital Reconstruction	-	800,000	800,000	800,000	800,000	800,000	800,000	4,800,000	-	-
Pedestrian Facilities - Repair, Replacement, ADA	-	629,000	629,000	629,000	629,000	629,000	629,000	3,774,000	-	-
<b>Subtotal</b>	<b>\$ 1,280,823</b>	<b>\$ 1,750,000</b>	<b>\$ 1,694,000</b>	<b>\$ 1,694,000</b>	<b>\$ 1,429,000</b>	<b>\$ 1,550,000</b>	<b>\$ 1,550,000</b>	<b>\$ 9,667,000</b>	<b>\$ 187,823</b>	<b>\$ -</b>
<b>Capital Planning Studies</b>										
Transportation Corridor Scoping and Prioritization - Canyon Blvd	\$ 200,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	100,000	\$ 100,000	\$ -
Transportation Corridor Scoping and Prioritization - East Arapahoe	\$ 200,000	100,000	100,000	-	-	-	-	200,000	-	-
Transportation Corridor Scoping and Prioritization - Lottery	\$ 200,000	-	100,000	100,000	-	-	-	200,000	-	-
<b>Subtotal</b>	<b>\$ 600,000</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>
<b>New Capital Project</b>										
Bikeway Facilities - Enhancements	\$ -	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 1,350,000	\$ -	\$ -
Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
TIP Local Match/TMP Implementation	-	3,300,000	3,300,000	4,200,000	4,000,000	4,000,000	4,000,000	22,800,000	-	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 3,650,000</b>	<b>\$ 3,650,000</b>	<b>\$ 4,550,000</b>	<b>\$ 4,350,000</b>	<b>\$ 4,350,000</b>	<b>\$ 4,350,000</b>	<b>\$ 24,900,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Transfer</b>										
Tributary Greenways Program - Transportation - Transfer	\$ -	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 585,000	\$ 97,500	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 97,500</b>	<b>\$ 585,000</b>	<b>\$ 97,500</b>	<b>\$ -</b>					
<b>Total</b>	<b>\$ 1,880,823</b>	<b>\$ 6,557,500</b>	<b>\$ 6,501,500</b>	<b>\$ 6,441,500</b>	<b>\$ 5,876,500</b>	<b>\$ 5,997,500</b>	<b>\$ 5,997,500</b>	<b>\$ 37,372,000</b>	<b>\$ 385,323</b>	<b>\$ -</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

WASTEWATER UTILITY FUND

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Utility Billing Computer System Replacement	\$ 115,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 65,000	\$ 115,000	\$ -	\$ -
Wastewater Treatment Activated Sludge	710,961	389,376	-	58,493	-	-	-	447,869	-	-
Wastewater Treatment Facility Instrumentation/Control	9,131,068	540,800	-	674,918	701,915	729,992	759,191	3,406,816	695,600	5,028,652
Wastewater Treatment Facility Permit Improvements - Funded	23,487,234	1,650,000	150,000	-	750,000	1,500,000	18,775,000	22,825,000	662,234	-
Marshall Landfill	100,000	-	100,000	-	-	-	-	100,000	-	-
Wastewater Treatment Facility Electrical	1,420,000	-	120,000	1,200,000	-	-	-	1,320,000	100,000	-
Wastewater Treatment Facility Laboratory	100,000	-	50,000	-	-	-	-	50,000	50,000	-
Wastewater Treatment Facility Pumps	448,413	-	150,000	-	-	-	-	150,000	298,413	-
Goose Creek Sanitary Sewer Interceptor Rehabilitation	2,019,578	-	-	-	25,000	647,590	1,346,988	2,019,578	-	-
<b>Subtotal</b>	<b>\$ 37,532,254</b>	<b>\$ 2,630,176</b>	<b>\$ 570,000</b>	<b>\$ 1,933,411</b>	<b>\$ 1,476,915</b>	<b>\$ 2,877,582</b>	<b>\$ 20,946,179</b>	<b>\$ 30,434,263</b>	<b>\$ 1,806,247</b>	<b>\$ 5,028,652</b>
<b>Capital Maintenance</b>										
Condition Assessment Program	\$ 5,173,721	\$ 780,000	\$ 811,200	\$ 843,648	\$ 877,394	\$ 912,490	\$ 948,989	\$ 5,173,721	\$ -	\$ -
IBM Lift Station Improvements	1,300,000	500,000	-	-	-	-	-	500,000	-	800,000
Sanitary Sewer Manhole Rehabilitation	1,483,660	208,000	216,320	224,973	233,972	243,331	253,064	1,379,660	104,000	-
Sanitary Sewer Rehabilitation	23,318,721	12,155,000	2,061,200	2,093,648	2,127,394	2,162,490	2,198,989	22,798,721	520,000	-
Collection System Monitoring	100,000	-	-	-	-	-	-	-	100,000	-
Wastewater Treatment Facility Digester Complex	2,200,000	-	-	-	-	200,000	2,000,000	2,200,000	-	-
Wastewater Treatment Facility Cogeneration	184,481	-	-	-	-	-	184,481	184,481	-	-
<b>Subtotal</b>	<b>\$ 33,760,583</b>	<b>\$ 13,643,000</b>	<b>\$ 3,088,720</b>	<b>\$ 3,162,269</b>	<b>\$ 3,238,760</b>	<b>\$ 3,518,311</b>	<b>\$ 5,585,523</b>	<b>\$ 32,236,583</b>	<b>\$ 724,000</b>	<b>\$ 800,000</b>
<b>Total</b>	<b>\$ 71,292,837</b>	<b>\$ 16,273,176</b>	<b>\$ 3,658,720</b>	<b>\$ 5,095,680</b>	<b>\$ 4,715,675</b>	<b>\$ 6,395,893</b>	<b>\$ 26,531,702</b>	<b>\$ 62,670,846</b>	<b>\$ 2,530,247</b>	<b>\$ 5,828,652</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

## WATER UTILITY FUND

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Barker Dam and Reservoir	\$ 498,560	\$ 378,560	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 378,560	\$ 120,000	\$ -
Betasso Water Treatment Facility	13,325,000	700,000	12,125,000	-	-	-	-	12,825,000	500,000	-
Devil's Thumb Security Fence	50,000	50,000	-	-	-	-	-	50,000	-	-
Sunshine Transmission Pipe	2,000,000	1,000,000	-	-	-	-	-	1,000,000	1,000,000	-
Water System Security Upgrades	808,434	150,000	150,000	150,000	150,000	90,000	118,434	808,434	-	-
Barker Dam Outlet	9,162,557	-	50,000	175,000	803,414	8,134,143	-	9,162,557	-	-
Boulder Reservoir Water Treatment Facility - Funded	164,000	-	164,000	-	-	-	-	164,000	-	-
Lakewood Hydroelectric / Pressure Reducing Facility	430,000	-	130,000	-	-	300,000	-	430,000	-	-
Utility Billing Computer System Replacement	225,000	100,000	-	-	-	-	125,000	225,000	-	-
Lakewood Dam	124,707	-	-	-	124,707	-	-	124,707	-	-
Pearl Street Hydroelectric / Pressure Reducing Facility	267,664	-	-	-	24,333	243,331	-	267,664	-	-
Green Lake 2 Dam	5,223,557	-	-	-	-	75,000	468,051	5,430,511	-	4,680,506
Wittemyer Ponds - Funded	5,519,534	-	-	-	-	100,000	492,685	5,920,219	-	4,926,849
<b>Subtotal</b>	<b>\$ 37,799,013</b>	<b>\$ 2,378,560</b>	<b>\$ 12,619,000</b>	<b>\$ 325,000</b>	<b>\$ 1,102,454</b>	<b>\$ 8,942,474</b>	<b>\$ 1,204,170</b>	<b>\$ 26,571,658</b>	<b>\$ 1,620,000</b>	<b>\$ 9,607,355</b>
<b>Capital Maintenance</b>										
Barker Gravity Pipeline Repair	\$ -	\$ 378,560	\$ 667,416	\$ 612,436	\$ 636,933	\$ 662,410	\$ 688,907	\$ 3,646,662	\$ -	\$ -
Goose Lake Dam	20,000	20,000	-	-	-	-	-	20,000	-	-
Kohler Storage Tank	903,362	103,487	799,875	-	-	-	-	903,362	-	-
Lakewood Pipeline	846,730	270,400	-	-	-	316,330	-	586,730	260,000	-
Silver Lake Dam	75,000	75,000	-	-	-	-	-	75,000	-	-
Silver Lake Hydroelectric / PRV	150,000	150,000	-	-	-	-	-	150,000	-	-
Waterline Replacement	24,329,088	3,224,000	3,352,960	3,487,078	3,626,562	3,771,624	3,224,033	20,686,257	3,642,831	-
Watershed Improvements	260,000	80,000	80,000	-	-	-	100,000	260,000	-	-
Water Transmission Facilities (Zone 3)	250,000	-	1,200,000	-	-	250,000	-	1,450,000	-	(1,200,000)
Barker-Kossler Penstock Repair	116,986	-	-	116,986	-	-	-	116,986	-	-
Betasso Storage Tank	292,465	-	-	292,465	-	-	-	292,465	-	-
Sunshine Hydroelectric / Pressure Reducing Station	271,875	-	-	271,875	-	-	-	271,875	-	-
Water Transmission Facilities (Zone 2)	500,000	-	-	250,000	-	-	250,000	500,000	-	-
Betasso Hydroelectric / Pressure Reducing Facility	250,000	-	-	-	250,000	-	-	250,000	-	-
Water Transmission Facilities (Zone 1)	250,000	-	-	-	250,000	-	-	250,000	-	-
Farmer's Ditch	108,160	-	-	-	-	108,160	-	108,160	-	-
<b>Subtotal</b>	<b>\$ 28,623,666</b>	<b>\$ 4,301,447</b>	<b>\$ 6,100,251</b>	<b>\$ 5,030,840</b>	<b>\$ 4,763,495</b>	<b>\$ 5,108,524</b>	<b>\$ 4,262,940</b>	<b>\$ 29,567,497</b>	<b>\$ 3,902,831</b>	<b>\$ (1,200,000)</b>

Table 2-3: 2015-2020 Funding Summary by Fund (Cont.)

**WATER UTILITY FUND (Cont.)**

**New Capital Project**

Annexation Related Water System Expansion	\$ 5,000,000	\$ 2,500,000	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -	\$ -
NCWCD Conveyance - Carter Lake Pipeline	38,918,583	500,000	850,000	2,036,322	34,288,701	-	-	37,675,023	1,243,560	-
Barker Dam Hydroelectric	4,542,621	-	-	-	50,000	390,832	4,101,789	4,542,621	-	-
Source Water Monitoring	500,000	100,000	100,000	100,000	100,000	100,000	-	500,000	-	-
Carter Lake Hydroelectric	2,800,000	-	-	-	50,000	250,000	2,500,000	2,800,000	-	-
<b>Subtotal</b>	<b>\$ 51,761,204</b>	<b>\$ 3,100,000</b>	<b>\$ 3,450,000</b>	<b>\$ 2,136,322</b>	<b>\$ 34,488,701</b>	<b>\$ 740,832</b>	<b>\$ 6,601,789</b>	<b>\$ 50,517,644</b>	<b>\$ 1,243,560</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 118,183,883</b>	<b>\$ 9,780,007</b>	<b>\$ 22,169,251</b>	<b>\$ 7,492,162</b>	<b>\$ 40,354,650</b>	<b>\$ 14,791,830</b>	<b>\$ 12,068,899</b>	<b>\$ 106,656,799</b>	<b>\$ 6,766,391</b>	<b>\$ 8,407,355</b>

[This page is intentionally blank.]

City of Boulder  
**SPECIAL HIGHLIGHT ON  
SEPTEMBER 2013 FLOOD**  
2015–2020 Capital Improvement Program

### **Flood Impact to CIP – Overview**

September 2013 brought unprecedented rainfall to the region, causing significant flooding and extensive damage to both private property and city infrastructure. While full recovery is likely to take years, affected critical services have been restored. The flood has also created an opportunity to think strategically about the future. In response on Oct. 15, 2013, City Council approved key objectives to guide near-term flood recovery and the long-term resiliency of the Boulder community.

**Key Objectives for Near-Term Flood Recovery and Long-Term Resilience**

1. Help People Get Assistance
2. Restore and Enhance Our Infrastructure
3. Assist Business Recovery
4. Pursue and Focus Resources to Support Recovery Efforts
5. Learn Together and Plan for the Future

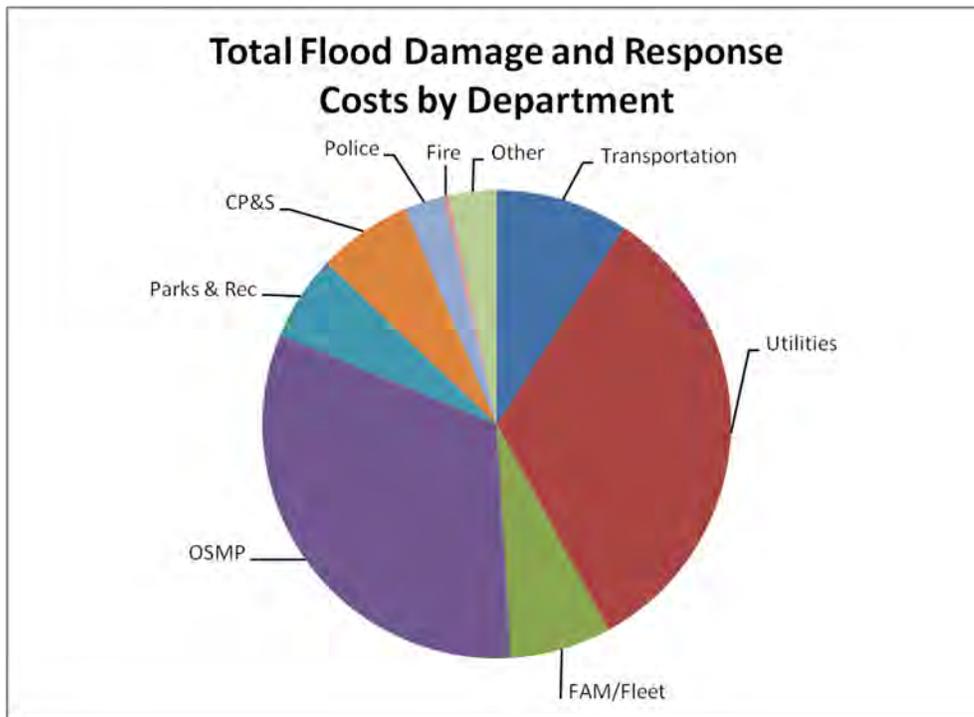
Damages to city infrastructure are currently estimated at approximately \$27 million dollars, although that number may change as assessments and refinements occur. This includes damage to more than:

- 50 city buildings/facilities; water, sewer, and stormwater infrastructure;
- 3 treatment facilities;
- 47 parks and 7 recreation facilities;
- Sediment and debris in all 15 drainages;
- 30 streets and sidewalks;
- 25 areas with damage to the multi-use path system; and
- Hundreds of Open Space and Mountain Parks (OSMP) trails, trailheads, irrigation facilities, fences, and natural ecological resources.

The city has identified approximately 330 flood related capital projects. As of July 1, 2014, the city is 64 percent complete with flood recovery projects.



Figure 3-1: Flood Costs by Department

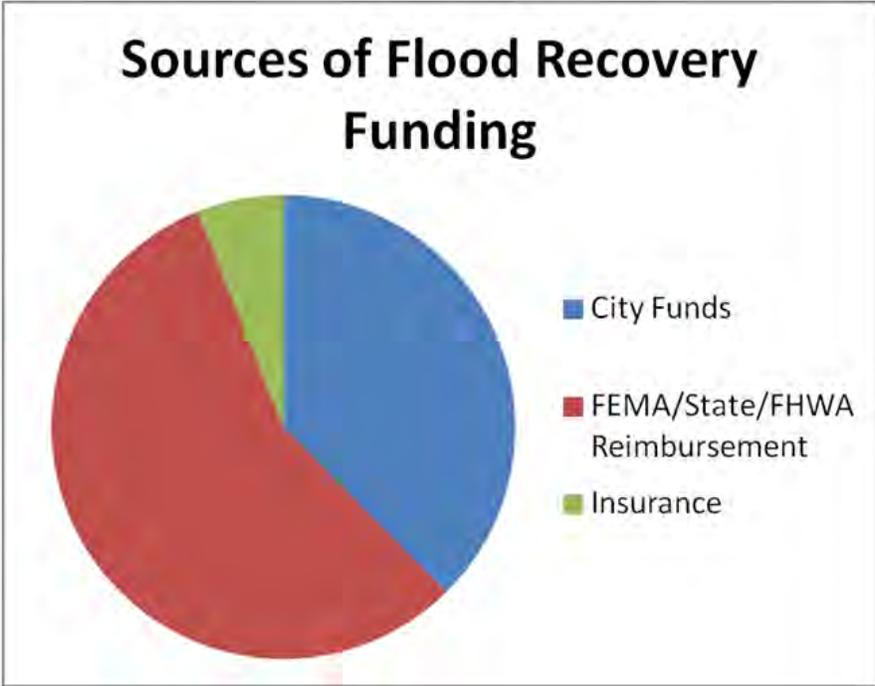


The city is utilizing all available resources in the recovery and reimbursement process including city insurance policies, FEMA assistance, and other federal agencies (e.g.: Federal Highway Administration, Urban Drainage & Flood Control District, Colorado Water Conservation Board, etc).

It is anticipated that 75% of eligible costs will eventually be reimbursed by FEMA, and an additional 12.5% by the State of Colorado. To be eligible for reimbursement, the work must meet certain criteria established by FEMA and be completed within 18 months of the disaster declaration. Eligible costs are uncertain and are currently estimated to be 80-90 percent of actual costs. The timing of the reimbursement is unknown and may occur over a period of 1-3 years.



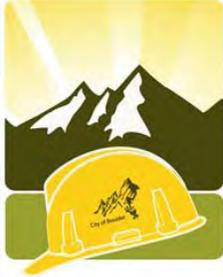
Figure 3-2: Sources of Funding



Additional detail of the impacts of the flood is described in each department overview, including how the flood impacted or delayed various capital projects.

Additional information on flood impacts to people, private property and infrastructure citywide and the current status of recovery can be found at [www.BoulderFloodInfo.net](http://www.BoulderFloodInfo.net).

[This page is intentionally blank.]



City of Boulder  
**SPECIAL HIGHLIGHT ON  
CAPITAL IMPROVEMENT BOND**  
2015–2020 Capital Improvement Program

## Introduction

The Special Highlight on the Capital Improvement Bond section details a significant, multi-department, capital improvement effort currently underway in the City of Boulder. Implementation of the bond is consistent with the City Council support, voter approval, stakeholder committee recommendation, and meets the legal requirements of the bond council.

A website has been created that allows the community to track the progress of implementation of the bond projects at [www.bouldercolorado.gov/bondprojects](http://www.bouldercolorado.gov/bondprojects). Background information on the Capital Improvement Bond, including bond issuance, is available in the 2014–2019 CIP document at: [2014–2019 CIP Special Highlight on Capital Bond](#).

## Overview of Capital Investment Strategy and Capital Improvement Bond Implementation

In the November 2011 election, City of Boulder voters approved a measure, by a 3-to-1 margin, that would allow the city to leverage existing revenues to bond for up to \$49 million to fund capital projects that address significant deficiencies and high priority infrastructure improvements throughout the community. Because the city was able to leverage existing revenues, the measure did not raise taxes. The \$49 million of bonds have a 20-year payback and 85 percent of the total of the bonds is required to be spent by March 22, 2015.

## Project Highlights and Status

There are nearly 100 individual projects that are being implemented with the bond funds throughout the community. The individual projects are grouped into 26 categories which are briefly described below along with the current status of the projects as of July 2014. Details related to each project can be found at [www.bouldercolorado.gov/bondprojects](http://www.bouldercolorado.gov/bondprojects).

1. Boulder Reservoir Infrastructure Improvements: Includes improving the entry gate, roadway, parking lot, utility infrastructure, and grounds and landscape. The new Gateway Enhancement project at the main Reservoir

### Highlights at a Glance

- 26 categories containing a total of **nearly 100** individual projects:
  - ◆ 11% in design & planning phase
  - ◆ 23% under construction
  - ◆ 66% completed
- **84%** of total funding has been spent or encumbered as of June 30, 2014.



## Capital Improvement Bond

entrance at 51st Street is complete and will provide improved traffic access, new entry buildings and an improved inspection station for Aquatic Nuisance Species (ANS). Utility upgrades are complete and provide improved water and sanitary sewer facilities at the reservoir.

2. **Columbia Cemetery Upgrades and Enhancements:** Includes constructing new fencing, repairing headstones and improving irrigation. A new fence has been installed along the west property boundary in keeping with the historic quality of the cemetery and headstones have been repaired. The next phase of construction will include installation of a new raw-water irrigation system to improve water conservation and efficiency.
3. **Park Shelter Replacements and Improvements:** Includes maintaining existing park shelters and providing critical shade amenities within multiple parks. Shade shelters construction at Valmont City Park, Foothills Dog Park, Eaton Park, Martin Park and Pleasant View Fields are complete. An additional shelter is planned at Harlow Platts Park later in 2014.
4. **Existing Park and Recreation Facility Renovations:** Includes addressing ongoing maintenance and accessibility while improving the overall safety and enjoyment of park facilities. Canyon Park, Columbine Park, Harlow Platts Park, Pineview Park, East Palo Park, and North Boulder Park are completed with improvements ranging from turf and irrigation renovations, playground replacement, accessibility compliance and replacement of park amenities. Pleasant View Sports facility, Mapleton Ballfields, and Stazio Ballfields all have completed parking lot and ADA compliance upgrades. Construction will begin this summer at Crestview Park, with completion later in 2014.
5. **South Boulder Recreation Center Floor Replacement:** Includes replacing water-damaged wooden floor at the South Boulder Recreation Center (SBRC) gym and racquetball courts. During the design and investigative stages in January 2012, low levels of mercury and lead contamination were found in the underlying floor membrane in the gym, racquetball and Pilates rooms. Although posing no immediate risks to patrons and staff, it was decided to remove the old flooring system in all three rooms. The floor has been replaced along with installation of



Sign highlighting a Capital Improvement Bond Program off of Gillaspie Drive.



necessary ADA compliance upgrades that provide full access to the new gym floor by all members of the community.

6. **Downtown Commercial District Improvements:** Includes public right-of-way enhancements to downtown commercial district and Pearl Street Mall. 15<sup>th</sup> Street between Arapahoe and Canyon to improve pedestrian accessibility as well as streetscape character is complete. Streetscape improvements on Pearl Street from 11<sup>th</sup> to 7<sup>th</sup> Streets are under construction, with an estimated completion date of fall 2014. An interdepartmental city team and Convention and Visitors Bureau staff jointly worked to place an interactive kiosk for public use on the Pearl Street Mall.
7. **Main Library Renovation:** Includes three critical renovations and improvements to the Main Library: (a) new children's library to be located in the area near and including the Boulder Creek Room; (b) new teen space; (c) improved access and browsing area for fiction, movies and music collections near the main entrance on Arapahoe Avenue; (d) a new cafe on the bridge; and (e) more meeting spaces. The library remains open during the renovation, and phases one and two of four will be complete by Aug. 1, 2014. The estimated completion of the project is fourth quarter 2014, with close-out costs occurring in first quarter 2015.
8. **Replace Financial and Human Resources Software:** In mid-2011, the city launched an effort to replace the outdated financial, human resources and payroll systems with an integrated, more modern and comprehensive software solution. The city selected Tyler Technologies as the software vendor, and is in the process of implementing the Munis software. The system go-live date is broken into several phases: Finance (Jan. 1, 2015), HR/Payroll (end of March 2015) and Performance Based Budgeting (later in 2015).
9. **Major Business Software Replacement:** Includes replacing and augmenting major business software, such as records management, website/eGov, and permit systems. An implementation plan for the records management software is complete and implementation is underway. The redesign of the city's website is complete, including a web-based Constituent Relationship Management (CRM) system. The city's permit system replacement project is underway with an estimated go-live date of fall 2016.
10. **Facility Electrical, Plumbing, HVAC and Elevator Replacements:** Includes infrastructure replacement for overdue replacement and repair projects such as at the Public Safety Building, Municipal Building, Main Library, Dairy Center, and Fleet Services. These projects have been completed, with the exception of the elevator repairs at the Public Safety Building. These repairs will be completed later in 2014.



11. Facility Parking Lot Repair: Includes repair and complete maintenance needs for some of the city's asphalt parking areas, including downtown facilities and fire stations. Most of the parking lot repairs are complete, with the exception of Spruce Pool and Park Central which will be complete in third quarter 2014.
12. Facility Outdoor Lighting: Includes solar canopy, car charging, and lighting projects, which would eliminate electrical conduit runs. Two of the solar canopies/car chargers are complete with one at East Boulder Recreation Center and one at the lot at Broadway and Spruce. New lights with solar powered fixtures will be installed in the public lot next to the Park Central building at the corner of Broadway and Arapahoe in coordination with the parking lot work, by October 2012.
13. Facility ADA Compliance: Includes prioritizing and adapting city facilities that do not meet the 2010 requirements of the Americans with Disabilities Act (ADA). Based on an assessment, ADA improvements have been made at the Main Library, South Boulder Recreation Center, and a new ramp will be installed at Park Central in coordination with the parking lot work. In addition, bond funds will be used to construct the new city-owned ADA restroom at Chautauqua Park (beginning fall/winter 2014) and install a new driveway at the Pottery Lab (winter 2014).
14. New Wildland Fire Station: Includes consolidating the operations of the Boulder Fire-Rescue Department's Wildland Fire personnel into one facility from the three facilities they currently use. Construction is underway, with anticipated completion by early 2015.
15. Replace Substandard Bridges, Structures, Signs and Systems: Includes the replacement of the 63<sup>rd</sup> Street Bridge, irrigation system replacement on the Foothills Parkway landscaping, replacement of substandard signs and the replacement of signal light bulbs with LED lights. The Foothills irrigation system replacement between Colorado and US 36 is being designed and construction will start later this year. The substandard sign installations have started and all of the traffic signal lighting (red, yellow and green) has been replaced with LED displays. The 63<sup>rd</sup> Street bridge project is under construction.
16. Arterial Road Reconstruction: Arapahoe is the arterial in highest need of reconstruction, and this project will allow the worst sections of Arapahoe to be reconstructed from Folsom to 15<sup>th</sup> Street. The project is under construction and anticipated to be complete by the fall of 2014.
17. Road Pavement Repair: Includes overlay and chip seal of various streets throughout the city. Approximately one-third of the funds will be spent each year to overlay approximately 50 blocks, or 5.5 miles, of roadway, in addition to the city's annual repair schedule.
18. Road Reconstruction: Includes reconstruction of streets that rate below 25, on the Overall Condition Index (OCI) that are mostly lower volume streets and cul-de-sacs. Approximately



one-third of the funds will be spent each year to reconstruct approximately 14 blocks, or approx 1.5 miles of roadway, in addition to the city's annual reconstruction schedule.

19. **Transportation Boulder Junction Improvements:** Includes the Junction Place Bridge at Goose Creek and the Pearl Parkway Multi-Way Boulevard from 30<sup>th</sup> to BNSF Railroad tracks on the south side of Pearl. The south side of Pearl Parkway is complete, and the Junction Place Bridge is under construction to be completed in winter 2014/2015.
20. **Transportation Transit System Enhancements:** Includes two projects, the largest of which is the 14<sup>th</sup> and Walnut Street Transit Center Improvements. The first phase, including 14<sup>th</sup> Street, is completed. The second phase for a secure bike storage facility is under construction. The second project provides additional money for transit stop improvements throughout the city, which is in the final design phase, soon to be completed.
21. **Transportation New Multi-Use Path Connections:** Includes constructing a multi-use path on 28<sup>th</sup> Street from Arapahoe to Goose Creek, which is in the construction phase. It also includes various multi-use path connections throughout the city. A connection on the south side of Baseline east and west of 30<sup>th</sup> Street and pedestrian crossing improvements at Baseline and Canyon Creek were completed in 2012.
22. **Transportation Pedestrian Enhancements:** Includes pedestrian crossing treatments, small and large missing sidewalk links and pedestrian improvements at Manhattan and S. Boulder Road. The enhancements to the pedestrian crossing at Canyon and 21<sup>st</sup> Street have been completed as well as the missing link on Gillaspie from Greenbriar to Julliard, Folsom south of Arapahoe on the east side, and on Pine Street and 27<sup>th</sup> Street.
23. **Transportation Intersection Improvements:** Includes improvements at the Foothills/Baseline intersection and the South Boulder Road/Manhattan Intersection. These projects are in the construction phase.
24. **Transportation Bike System Enhancements:** Includes additional bike system signage such as the designation of new on-street bike routes and installing way-finding and destination signs along existing greenways. Sign installation is on-going.
25. **Police Equipment:** Includes upgrading the records management system and adding more in-car video systems to the patrol fleet. The records system server upgrade is complete, and in-car and personal video systems are being installed in late 2014 or early 2015.
26. **Police Equipment Upgrades and Replacement:** Includes replacing the bomb squad robot, and purchasing equipment to operate a DNA Lab in Boulder in partnership with the Colorado Bureau of Investigation (CBI), and upgrading the emergency radio infrastructure. These projects are all complete.



### Implementation

To ensure that the city meets the spending and timing requirements of the capital improvement bond, the city has collected spending plans for each project and closely monitors construction progress. Table 4-1 shows the annual expenditure plan for each project for 2011 through 2015.

### Next Steps

Council will be updated on the capital improvement bond progress through semiannual updates as part of an Information Packet item.

In addition, public updates will be announced through press releases, social media and other commemorative events as some of the key projects break ground or are completed. Information on those projects that have traffic or multi-use path impacts will be provided to the public and media through weekly “Cone Zones” reports and other outreach materials. A map of the projects and status updates are available at [www.bouldercolorado.gov/bondprojects](http://www.bouldercolorado.gov/bondprojects).

Future CIP documents will continue to include a section on the capital bond projects until they are completed.



Table 4-1: 2011-2015 Spend Plan

**CAPITAL IMPROVEMENT BOND**

	Total Amount	2011 Actual	2012 Actual	2013 Actual	2014 Projected	2015 Projected
Arterial Road Reconstruction	\$ 5,280,000	\$ -	\$ 292,179	\$ 1,879,396	\$ 3,083,186	\$ 25,239
Boulder Reservoir Infrastructure Improvements	3,620,915	-	823,082	1,312,067	1,336,087	257,949
Columbia Cemetery Upgrades and Enhancements	750,000	-	87,280	237,741	309,191	122,787
Downtown Commercial District Improvements	2,720,000	-	79,089	979,599	1,659,427	-
Existing Park and Recreation Facility Renovations	3,700,000	-	1,605,009	874,086	829,384	261,521
Facility ADA Compliance	500,000	-	50,425	49,486	400,089	-
Facility Electrical, Plumbing, HVAC and Elevator Rep.	1,580,960	-	466,590	1,017,363	105,606	-
Facility Outdoor Lighting	56,807	-	8,611	48,196	3,216	-
Facility Parking Lot Repair	500,000	-	19,754	271,706	118,163	-
Main Library Renovations	2,900,000	-	12,481	289,353	2,258,887	337,381
Major Business Software Replacement	1,602,600	-	25,000	451,008	294,548	860,573
New Wildland Fire Station	3,077,718	-	20,327	182,000	2,188,192	685,954
Park Shelter Replacements and Improvements	1,000,000	-	355,535	239,885	312,937	141,643
Police Equipment	253,290	-	71,224	63,668	115,681	-
Police Equipment Upgrades and Replacement	820,050	-	369,938	556,473	-	-
Replace Financial and Human Resources Software	3,488,693	-	280,662	772,546	1,603,729	693,197
Replace Substandard Bridges, Structures, Signs & Sys.	4,150,000	-	475,563	1,130,808	2,356,766	22,978
Road Pavement Repair	5,000,000	-	1,568,616	1,947,932	1,483,452	-
Road Reconstruction	2,500,000	-	525,960	713,741	1,260,298	-
South Boulder Recreation Center Floor Replacement	281,748	-	205,237	76,511	-	-
Transportation Bike System Enhancements	300,000	11,511	135,105	91,580	61,804	-
Transportation Boulder Junction Improvements	5,810,000	-	855,192	2,083,198	2,671,660	200,000
Transportation Intersection Improvements	500,000	-	13,454	8,205	357,584	-
Transportation New Multi Use Path connections	2,000,000	5,229	354,468	235,076	1,532,870	90,000
Transportation Pedestrian Enhancements	850,000	5,658	285,531	200,199	254,584	-
Transportation Transit System Enhancements	600,000	-	127,671	232,653	240,903	-
<b>Total</b>	<b>\$ 53,842,781</b>	<b>\$ 22,397</b>	<b>\$ 9,113,984</b>	<b>\$ 15,944,475</b>	<b>\$ 24,838,244</b>	<b>\$ 3,699,222</b>



[This page is intentionally blank.]

# DOWNTOWN/UNIVERSITY HILL MANAGEMENT DIVISION & PARKING SERVICES

2015–2020 Capital Improvement Program

## Funding Overview

Downtown and University Hill Management Division/Parking Services (DUHMD/PS) manages programs in five funds:

- Downtown Commercial District Fund – including restricted Central Area General Improvement District (CAGID) parking and tax revenues and on-street meter revenues
- University Hill Commercial District Fund – including restricted University Hill General Improvement District (UHGID) parking and tax revenues and on-street meter revenues
- Boulder Junction Access District (BJAD) Funds – Parking and Travel Demand Management (TDM) – including district tax revenues and eventually PILOT (payment in lieu of taxes) payments and parking revenues.
- General Fund – including on-street parking revenues, Neighborhood Parking Permit program revenues and parking enforcement revenues.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by DUHMD/PS. CIB funding is indicated by the following symbol: 

## Accomplishments and Highlights

Projects to be Completed in 2014:

- CAGID Garage Improvements: A new signage program will be completed in the five garages that includes variable messaging, new canopies and “lollipop” branding signage
- Downtown 14<sup>th</sup> Street Parking Lots: Patching and striping will be completed until enough funds for new paving accumulate
- CAGID Garage Major Maintenance: Planned projects include stair replacement at 1100 Walnut, elevator refurbishment at 1400 Walnut, interior painting at 1100 Spruce and 1500 Pearl.
-  15<sup>th</sup> St Streetscape Improvements: All work associated with the 15<sup>th</sup> St Streetscape project from Arapahoe to Canyon to improve pedestrian accessibility as well as streetscape character will be completed. Work included street trees, grates and guards, street furnishings and public art
-  Interactive Kiosks–Pearl Street Mall: Pearl Street Mall interactive kiosk in conjunction with Parks and Recreation, Open Space, Library Arts and the Convention



15th Street after renovation.



and Visitors Bureau was installed for public use.

-  West End Streetscape Improvements: All work associated with the West End Streetscape project on Pearl from 11<sup>th</sup> to 8<sup>th</sup> will be completed. This work will enhance the pedestrian crossing around 10<sup>th</sup> Street and the pedestrian corridor. In addition, work will include signage that will help draw people off the Pearl St Mall to the West End, new street trees and irrigation.

#### Projects Expected for Completion in 2015:

- BJAD–Parking: During 2015, with the completion of the Depot Square Project, BJAD–Parking will begin payments for 100 spaces within the Depot Square Garage.
- CAGID Garage Major Maintenance: Epoxy deck coating at 1100 Walnut, and drive lanes at 1000 Walnut garages. Additional interior painting at 1400 Walnut and 1100 Walnut.
- CAGID parking garage access equipment and supporting technology replacement (all 5 downtown garages).
- Downtown 14<sup>th</sup> Street Parking Lots: Repair and replacement of the three parking lots will begin as funds accumulate .
- Downtown/Pearl Street Mall Improvements and Amenities Replacement: Reserve funds will continue for the replacement of the pop jet fountain, begin mall bollard replacement, and refurbish the pedestrian scale lighting.

#### Projects Starting in 2015, but not Completed:

- Elevator Repair and refurbishment at 1100 Spruce.

#### Highlights of 2016 – 2020:

- CAGID Garage Major Maintenance: Projects to be covered include: major maintenance of the 1400 Walnut elevator; continued epoxy coatings; structural concrete repairs and interior painting at all garages.
- Downtown 14<sup>th</sup> Street Parking Lots: Continued repair and replacement of the lots as funds accumulate.
- Downtown/Pearl Street Mall Improvements and Amenities Replacement: Replace pop jet fountain, continue bollard replacement and replace shade structure awnings.

## Relationship to Guiding Principles and Prioritization

### CIP Guiding Principles:

All proposed projects in the 2015–2020 CIP are consistent with the applicable guiding principles. All projects have sufficient funds for ongoing maintenance and operations. All projects in the proposed CIP go towards maintaining and improving existing assets.

The Downtown/Pearl Street Mall Improvements/Replacements support the economic sustainability



of downtown Boulder by ensuring long term sustainability of our existing infrastructure and investing in the future economic and social vitality of our community center. The CAGID Garage Major Maintenance and Downtown 14<sup>th</sup> Street Parking Lot Replacement provide essential on-going major maintenance and reinvestment in the five parking facilities and three surface lots.

**Prioritization:**

The bond projects were all prioritized through the Capital Investment Stakeholder Committee as part of the city investment strategy. All of these projects improve and enhance the pedestrian experience in the downtown area.

DUHMD/PS has the responsibility to maintain all CAGID parking garage assets and the surface parking lots on 14<sup>th</sup> Street, in order to protect the investment and sustain functionality and safety.

The Downtown/Pearl Street Mall improvements are prioritized by necessary maintenance, replacement and repair of all amenities in the downtown area. Downtown Boulder is the center of the community and an important commercial center, economic generator and tourist attraction.

The Boulder Junction Access District parking garage was adopted through the TVAP plan in addressing the need for managed parking.

**Projects Not in Master Plan:**

DUHMD/Parking services does not have a master plan. Projects are included in the CIP based on stakeholder interest and necessary maintenance of capital assets.

**New Projects**

- CAGID parking garage access equipment and supporting technology replacement (all 5 downtown garages).

**Operation and Maintenance Impacts**

Garage and Lot maintenance and operations provide essential on-going major maintenance and reinvestment in the five parking facilities and three surface lots. Downtown and Pearl Street mall Improvements and Amenities replacement are intended to maintain all assets in current condition. With the maintenance and operation improvements programs in place, assets will avoid deferred maintenance. There are no additional O&M needs beyond what is included in these CIP programs.

**Deferred Projects, Eliminated or Changed Projects**

None.



## **Unfunded Projects and Emerging Needs**

Greater University Hill Infrastructure Investments:

As part of the ongoing hill revitalization strategy, high priority infrastructure improvements are proposed that address demonstrated needs within the Hill Community. These include:

- Residential pedestrian scale corridor lighting - up to \$5.7 million
- Gateway features between the residential and commercial areas - \$500,000
- Pennsylvania Event Street Pilot - \$700,000
- Commercial district street tree irrigation system - \$520,000

[This page is intentionally blank.]

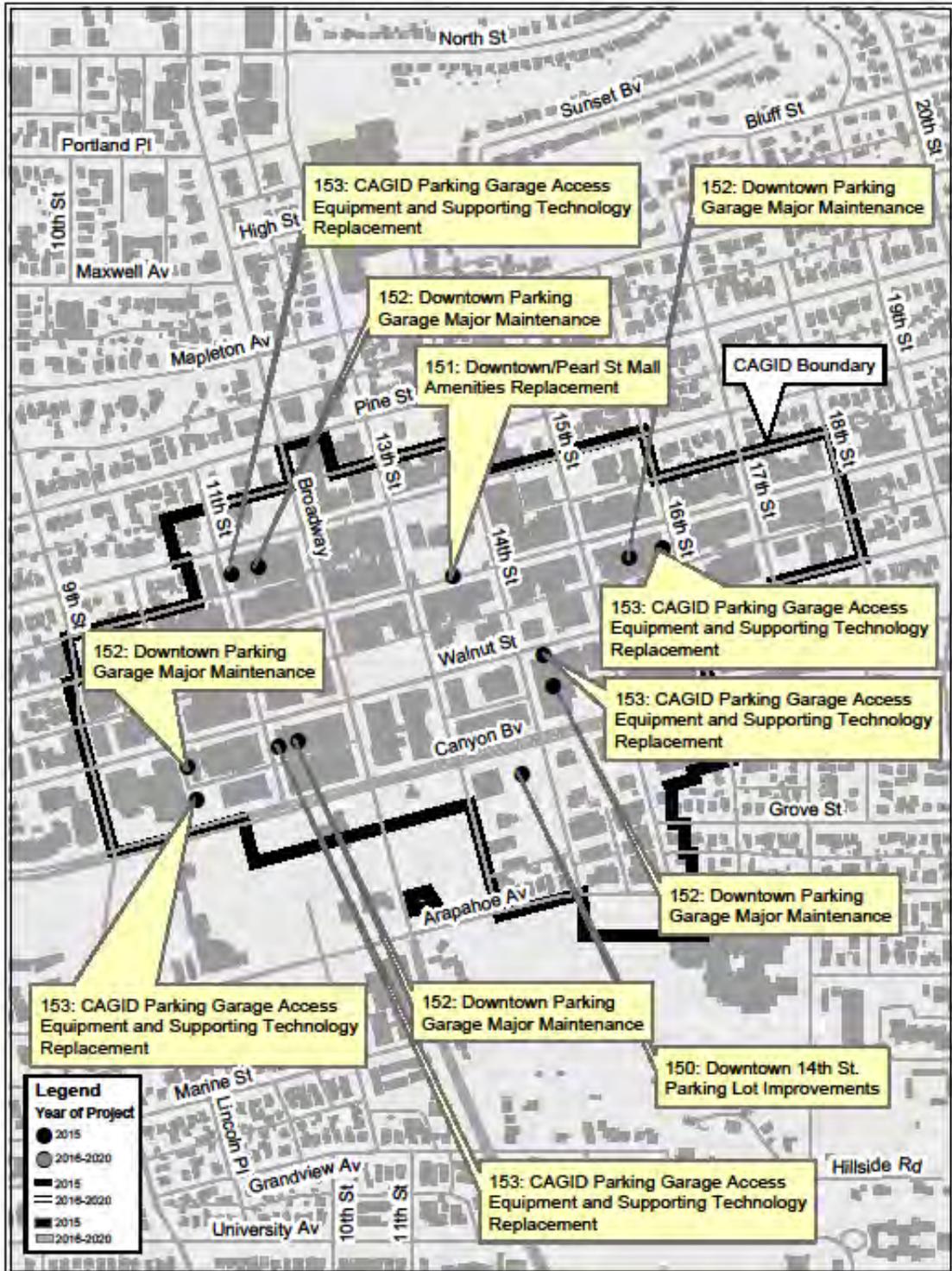
Table 5-1: 2015-2020 Funding Summary By Department

## DOWNTOWN AND UNIVERSITY HILL MANAGEMENT DIVISION (DUHMD) / PARKING SERVICES

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
CAGID Parking Garage Access Equipment	\$ 1,075,000	\$ 1,075,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,075,000	\$ -	\$ -
Downtown 14th Street Parking Lot Improvements	-	25,000	25,000	25,000	25,000	25,000	25,000	150,000	-	-
Downtown Parking Garage Major Maintenance	-	250,000	250,000	250,000	250,000	250,000	250,000	1,500,000	-	-
Downtown/Pearl St Mall Amenities Replacement	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
<b>Subtotal</b>	<b>\$ 1,075,000</b>	<b>\$ 1,475,000</b>	<b>\$ 400,000</b>	<b>\$ 3,475,000</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Total</b>	<b>\$ 1,075,000</b>	<b>\$ 1,475,000</b>	<b>\$ 400,000</b>	<b>\$ 3,475,000</b>	<b>\$ -</b>	<b>\$ -</b>				



## City of Boulder Capital Improvement Projects, 2015 - 2020 Downtown and University Hill Management Division





**Project Name:** CAGID Parking Garage Access Equipment & Supporting Technology Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	DUHMD	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	153
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The current gate system, cash collection systems and supporting software is below industry standards and in need of replacement. The software is no longer supported and the hardware mechanical apparatus are aging and do not contain modern technology available in the parking industry today. As a part of the AMPS project, a thorough analysis will be undertaken to assess all aspects of the parking access and control systems (PARCS) to include, gate equipment and supporting software. The intent in 2014 is to create an RFP for gate replacement and supporting technology to meet Boulder's future needs in the garages. The estimated total cost of \$1,075,000 will be verified through the RFP process. Installation is estimated to begin in early 2015.

**Relationship to Guiding Principles**

- |   |  |
|---|--|
| <input type="checkbox"/> Consistent with Master Plans   | <input checked="" type="checkbox"/> Sustains or improves existing assets   |
| <input type="checkbox"/> Achieves Community Sustainability goals                              | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input type="checkbox"/> Fund includes sufficient reserves   |
| <input checked="" type="checkbox"/> Maintains and enhances city's business systems            | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |  |

**Public Process Status, Issues**

Project is included in the AMPS assessment

**Relationship with Other Departments**

IT and Finance will collaborate on aspects of the garage gate and payment systems

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$75,000
Acquisition	
Construction	\$1,000,000

**Total Project Cost** **\$1,075,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$1,075,000
Funding Total	(\$1,075,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Downtown Commercial District Fund	\$0	\$1,075,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$1,075,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Downtown Commercial Management Fund

**Additional Annual O&M Description:**

Replacement funds for the garage gate technology will be added in the 2016 operating budget for CAGID.



**Project Name:** Downtown 14th Street Parking Lot Improvements

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	DUHMD	<b>BVCPCArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	150
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The 14th Street parking lot improvement project is an ongoing project to maintain the 3 surface parking lots on 14th Street between Canyon and Arapahoe. These lots are not owned by CAGID, they are city property, but located within the CAGID boundaries. The 14th Street lots surfaces are near their useful life and need repair and replacement. DUHMD/PS does not have a master plan, but identified the lack of funding to maintain the lots in the 2012 budget cycle. Facilities and Asset Management performed an inspection in 2010 for the three lots. They found that 2 of the lots require replacement due to severity of asphalt fatigue, cracks, potholes and drainage issues in over 20% of the surface. The third lot requires patching and sealing to maintain in good operating condition. Once a lot is newly paved, it will have an estimated life span of 20 years. The center lot was removed and replaced by FAM in 2014 as a part of a larger remediation project and rebuild of the civic plaza on 13th Street. The CIP for this project is an annual and ongoing appropriation of \$25,000 per year to establish repair and replacement savings. As the funds accumulate, the improvements to the lots will be completed on a rolling basis. Surface replacement of the lots with the highest severity of issues will be completed first. A capital improvement amount of approximately \$285,500 was estimated to complete all necessary asphalt surface repairs and replacement for the lots. 2015 represents the 4th year of appropriation toward the repair and improvement plan. As the middle lot was paved through the FAM remediation project, funds to upgrade the other two lots will be available sooner. Staff will monitor the implementation of the Civic Area Plan to ensure coordination with any redevelopment projects and responsible expenditure of funds.

**Relationship to Guiding Principles**

- |   |  |
|---|--|
| <input type="checkbox"/> Consistent with Master Plans   | <input checked="" type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves  |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |  |

**Public Process Status, Issues**

no public process

**Relationship with Other Departments**

Parks and Recreation, FAM and DUHMD/PS have all participated in the care and maintenance of the 14th Street lots.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$0
Acquisition	\$0
Construction	\$0
<b>Total Project Cost</b>	<input type="text"/>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	<input type="text"/>
Funding Total	<input type="text"/>
<b>Total Unfunded</b>	<input type="text"/>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Downtown Commercial District Fund		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>Total Funding Plan</b>		<input type="text"/>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Downtown Commercial District Fund

**Additional Annual O&M Description:**

Operating costs are currently covered in the Downtown Commercial District fund.



**Project Name:** Downtown Parking Garage Major Maintenance

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** DUHMD  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** Central Boulder  
**BVCPArea:** Area I  
**Map Number:** 152  
**CEAP Status:**

**Project Description**

Funding for the 4 year, 4.5 million dollar major capital renovation and repair project funding ended in 2011. Starting in 2012, \$250,000 per year was allocated as ongoing repairs/renovations to maintain the garages in good standing. Major maintenance projects include, but, are not limited to; epoxy coating of exposed garage decks (on a 6-8 year replacement schedule, one structure a year), painting (interior and exterior), major elevator repairs, and concrete deterioration. Many of these procedures require significant funding and are part of a rotating maintenance schedule. The intent is to maintain the garages in a manner to avoid or delay significant capital outlay brought on without timely maintenance.

Projects planned for 2014 include:

- CAGID Garage Improvements: A new signage program will be completed in the five garages that includes variable messaging.
- CAGID Garage Major Maintenance: Planned projects include stair replacement at 1100 Walnut, elevator refurbishment at 1400 Walnut, interior painting at 1100 Spruce and 1500 Pearl.

This project is for an ongoing funding program. All \$250,00 will be spent on rotating projects at the 5 garages each year.

**Relationship to Guiding Principles**

- |   |  |
|---|--|
| <input type="checkbox"/> Consistent with Master Plans   | <input checked="" type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |  |

**Public Process Status, Issues**

no public process

**Relationship with Other Departments**

There is no collaboration with other departments on the garage major maintenance.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	
Acquisition	
Construction	
<b>Total Project Cost</b>	<input type="text"/>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	
Funding Total	
<b>Total Unfunded</b>	<input type="text"/>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Downtown Commercial District Fund		\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
<b>Total Funding Plan</b>		<input type="text"/>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Downtown Commercial District Fund

**Additional Annual O&M Description:**

Operating costs are covered in the Downtown Commercial District Fund



**Project Name:** Downtown/Pearl St Mall Amenities Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	DUHMD	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	151
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Until 2012, there was no capital replacement or future improvements plan or funding source identified for the Pearl Street Mall and downtown streetscape improvements. The Downtown/Pearl St Mall Amenities replacement plan consists of two components: 1) capital replacement budget for the existing amenities on the Pearl Street Mall (pop jet fountain, shade structure, kiosks, play areas, etc.) and existing streetscape elements within the downtown area (benches, trash receptacles, bike racks, etc.) and 2) replacement of future streetscape improvements in sub areas of the downtown.

This project is for an ongoing funding program. DUHMD/PS worked with the Parks Mall staff and FAM to develop a replacement schedule. The replacement funds are designated as amenities age and need replacement or repairs.

In 2015-2020, in addition to accumulating funds for amenities replacement, other projects will be identified as needed.

**Relationship to Guiding Principles**

- |   |  |
|---|--|
| <input type="checkbox"/> Consistent with Master Plans   | <input checked="" type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves  |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |  |

**Public Process Status, Issues**

A Downtown Improvement Plan Task Force prioritized and identified improvements. Staff on the task force represent Parks and Recreation, Planning, Transportation, DUHMD/PS and Facilities Asset Management. Also included are representatives from the downtown boards and organizations: Downtown Management Division, Downtown Boulder Inc. and Downtown Boulder Business Improvement District. Additional stakeholders will be added as the project evolves. The primary foci of the task force has been twofold. First, working with Parks, GIS and FAM staff to create an inventory of existing amenity and streetscape improvements on the Pearl Street Mall and the downtown. This provides the detailed budget necessary to ensure that capital replacement funds are in place for these existing investments. The second component has been the recommendation for areas for future streetscape and infrastructure improvements.

FAM prepared a detailed replacement schedule spanning 10 years.

**Relationship with Other Departments**

DUHMD/PS staff is working with staff from FAM, Transportation, and Parks and Recreation to coordinate the downtown capital amenities replacement plan.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$0

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total \$0  
Funding Total

**Total Unfunded**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Downtown Commercial District Fund		\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000
<b>Total Funding Plan</b>							

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Downtown Commercial District Fund

**Additional Annual O&M Description:**

Operating costs are covered in the Downtown Commercial District Fund and the Parks and Recreation Fund.

[This page is intentionally blank.]

# FACILITIES AND ASSET MANAGEMENT

2015–2020 Capital Improvement Program

## Funding Overview

The Facilities and Asset Management (FAM) CIP is supported by the following funds.

### Capital Development Fund:

The Capital Development Fund accounts for development fees to be utilized for the construction of capital improvements related to new development and growth. Funding for the Capital Development Fund is provided through the development excise tax (DET) and impact fees.

In 1987, the DET was instituted to fund capital improvements related to growth and is paid by new commercial and residential development. Beginning in 2010, excise taxes previously collected for new construction for Fire, Housing and Human Services, Library, Police and Municipal Facilities ceased and were replaced with impact fees. In addition, Parks and Recreation was added to the list of departments collecting impact fees.

**Table 6–1: Capital Development Fund Balance – 2013 Year–End**

Account	DET Balance	Impact Fee Balance
Library	\$2,018,685	\$123,656
Municipal Facilities	\$1,821,015	\$89,941
HHS	\$738,620	\$46,898
Police Department	\$776,122	\$96,397
Fire Department	\$21,226	\$112,645
Parks and Recreation	N/A	\$460,502
<b>Total</b>	<b>\$5,376,668</b>	<b>\$930,039</b>

**Note:**

The balances above will be revised due to the loan that was created at the end of 2013 from the Capital Development Fund to the FR&R fund for the 13<sup>th</sup> Street Clean Up project. The loan amount was \$4,000,000 and will be paid back by the General Fund.

### Facility Renovation & Replacement Fund:

The Facility Renovation & Replacement Fund (FR&R) accounts for major maintenance (projects >\$3000), renovation and building system replacement projects for FAM maintained buildings, structures and property. The majority of FR&R funding is received as a transfer from the General Fund (GF). The FR&R fund also receives funding from restricted and enterprise funds for specific



departmental projects including remediation work. The FR&R fund is an internal service fund managed by FAM.

FR&R projects are identified by FAM throughout the year as facilities are serviced and inspected. Projects may also be identified in department master plans as these are approved by City Council. Project lists are then sent to departments for review and approval. For some departments like Parks & Recreation and Library and Arts, regularly scheduled meetings are held throughout the year to identify project needs or changes.

Due to the recent approval of several department master plans, specific area plans like the Civic Area Plan and Yards Master Plan update, and studies such as the Police Space Study and Fire Response mapping, FAM will coordinate various projects as part of the 2015 FAM Master Plan update.

### Capital Improvement Bond Fund

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by FAM. CIB funding is indicated by the following symbol: 

### 2013 Flood Impact

The city's pre-flood mapping was instrumental in identifying facilities subject to flooding. Due to the quick response of city crews and facility tenants which alleviated further facility damages, insurance covered all facility-related damages. Insurance, however, did not cover facility mitigation and additional mitigation costs not covered by FEMA will be provided for in current year funding. The city is also seeking Hazard Mitigation Grant Project funding for generators at critical facilities which will also require a 20 percent match with current year funding. Flood projects already approved in 2013 and 2014 are being adjusted to address impacts from the September 2013 flood. No additional FAM CIP flood projects in 2015–2020 are planned.

### Accomplishments and Highlights

Projects to be Completed in 2014:

- Flood Restoration Projects: Completed repairs from the flood on 24 facilities, which included all three recreation centers, West Senior Center, 3 fire stations and Valmont Butte. Performed flood mitigation projects at eight facilities.
- Municipal Building: Rebuilt the flood gates and completed improvements to the Council Chambers including the audiovisual systems.
- Valmont Butte Voluntary Clean-Up Program (VCUP): Obtained environmental covenants on the remaining areas with mill tailings. Determined path ahead for land marking portions of the property.
- 13<sup>th</sup> Street Plaza: Partially completed the approved Voluntary Clean-Up Program and re-constructed a temporary plaza and negotiated with other responsible party for costs

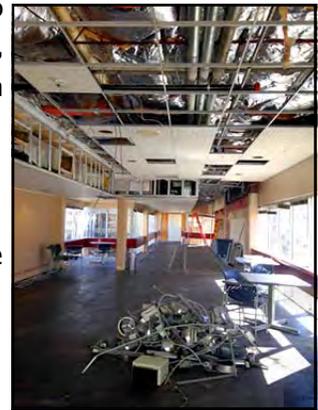


and remaining clean-up.

- Renewable Electric Vehicle Charging Systems: Commissioned two electric vehicle solar charging trees, one at East Boulder Community Center and the other at the Spruce and Broadway parking lot.
-  Completed Several Capital Improvement Bond (CIB) Projects: Completed asphalt parking lots repairs at seven facilities throughout city, freight elevator repairs at the Public Safety Building, and ADA compliance at multiple facilities to include constructing new accessible restrooms at the Chautauqua Auditorium.
- Renewable Energy Analyses: Performed assessments to evaluate renewable energy sources such as small scale wind, geothermal, biomass, hydro, and thermal storage systems on city properties.

### Projects Expected for Completion in 2015:

-  New Wildland Fire Facility: A CIB bond project will provide for year-round wildland fire fighting capability.
-  Main Library Renovation Project: Includes CIB bond funding for children and teen areas and infrastructure repairs for electrical, carpeting, HVAC upgrades and windows.



Renovation of the bridge at the Library.

### Projects Starting in 2015, but Not Completed:

- Downtown Campus Facilities: Access improvements to be coordinated with Civic Area Plan catalysts projects.

### Highlights of 2016–2020 Projects:

- North Boulder Recreation Center: Replace solar thermal system that is beyond repair and replace leaking roof in coordination.
- East Boulder Community Center: Replace pool air handlers that are beyond their useful life.
- Outdoor Lighting Compliance Improvements: Replace outdoor fixtures with LED products to meet the city's outdoor lighting regulations.
- Fire Station #1: Repair cracked bay floors and exterior concrete ramp.
- Mapleton Ball Field: Renovate concessions and restrooms, upgrade electrical, lighting and HVAC systems, and renew protective coatings.
- Martin Park and North Boulder Park, Park Shelter Repairs: Upgrade electrical, plumbing and renew protective coatings.
- Stazio Ball Field, Renovate Restrooms and Concessions: Replace tensile canopy covering, upgrade electrical, plumbing, and HVAC, replace roof, renew protective coatings and provide for ADA compliance.
- Miscellaneous Facility Maintenance Projects: A collection of major maintenance projects



under \$50,000 programmed annually, such as roof evaluations, pavement repairs, HVAC upgrades and exterior protective coatings. This totals \$370,000 to \$450,000 a year, with the current CIP period totaling \$2,415,000.

### Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:

The proposed 2015 – 2020 CIP is consistent with the CIP Guiding Principles as follows:

- All projects (except those noted below) are consistent with council accepted master plans; FAM's Master Plan was last adopted in 2005 and is currently under review
- Capital improvements are designed to achieve community sustainability goals
- Funds to operate and maintain projects have been identified
- Adequate financial capacity and flexibility is available to respond to emerging, unanticipated needs
- Projects sustain or improve maintenance of existing assets before investing in new assets
- Projects have been identified to meet legal mandates, improve public safety and reduce annual operating costs and improve efficiency
- Projects have been coordinated with other departments
- Funds supporting FAM's CIP provides sufficient reserves to allow the ability to address emergencies and natural disaster. As projects are developed, improvements may also require building code updates, safety and security enhancements and added efficiencies to reduce energy consumption and operating costs.

As projects are developed, improvements may also require building code updates, safety and security enhancements and added efficiencies to reduce energy consumption and operating costs.

Prioritization:

In accordance to the FAM Master Plan and under current fiscally constrained funding, essential facilities are maintained to industry standards and remaining facilities at standards commensurate with available funding. Energy efficiency projects, such as the work accomplished through the Energy Performance Contracts, are funded, if budget neutral or if there is less than a three year simple payback.

In addition, FAM prioritizes its projects based on the type of facility and type of work as shown below. Should a higher priority project need arise during the current year and future years, projects may be prioritized, especially for an immediate health and safety need.



**Table 6–2: FAM Priority Codes**

Priority Code	Type of Facility	Type of Work
1	Essential <sup>1</sup>	Essential <sup>2</sup>
2	Non-Essential	Essential
3	Essential	Desirable
4	Non-Essential	Desirable <sup>3</sup>
5	Essential or Non-Essential	Discretionary <sup>4</sup>
6	Essential or Non-Essential	Deferred

<sup>1</sup>Essential Facility: A facility necessary to sustain the most basic core of city services such as public health and safety and/or compliance with federal or state laws particularly during an emergency event. 26 facilities are identified as “essential” in the City of Boulder such as the Municipal Building, Park Central, New Britain, Public Safety Building, Municipal Service Center, Fleet Services, Fire Stations, North Boulder Recreation Center and East Boulder Community Center.

<sup>2</sup>Essential Work: Work that is performed for life, health, and safety-related situations. Also includes work that is needed so that a city service can be provided.

<sup>3</sup>Desirable Work: Work that does not meet the essential or discretionary definition.

<sup>4</sup>Discretionary Work: Work that is not required but would be defined as “nice-to-have.”

The following are examples of priority code projects:

- Priority 1: repair emergency generator at the Public Service Building
- Priority 2: repair emergency lighting at South Boulder Recreation Center
- Priority 3: replace lighting at Park Central
- Priority 4: replace lighting at Meadows Library
- Priority 5: paint walls at New Britain after 10 years
- Priority 6: replace carpet in staff spaces after 7 years

Projects Not in Master Plans:

- Fleet Services: The Fleet Strategic Plan is under development for 2015. This Plan will guide future plans for vehicle acquisition and maintenance for all city vehicles and off-road equipment.
- Parks and Recreation: The Tantra Shop Renovation will be prioritized with other projects based upon the Parks and Recreation Master Plan and associated area development plans.



### New Projects

- North Boulder Recreation Center: Replace leaking roof in coordination with the solar thermal system replacement.
- Boulder Museum of Contemporary Art Floor Replacement: Replaces deteriorated and pitted first floor and stairway that are badly chipped and pitted, creating a tripping hazard.
- Fire Station #1: Repair cracked bay floors and exterior concrete ramp.

### Operation and Maintenance Impacts

Since the proposed FAM 2015–2020 CIP enhances and maintains current facilities, the impacts to FAM's Operation and Maintenance (O&M) budget will be positive in the replacement of aging and inefficient infrastructure. However, despite additional ongoing operating dollars allocated to FAM in 2014 to help slow the rate of backlog increase, FAM's current O&M budget is not funded to action levels, which causes FAM's backlog to increase annually. Higher construction costs are also being seen and not adequately accounted for in O&M budgets. The FAM Master Plan update will also identify climate change impacts to building systems such as lower service lives of equipment and building systems, which will require more frequent replacements and possibly larger equipment.

### Deferred Projects, Eliminated or Changed Projects

- Flatirons Event Center Major Repairs: Eliminated \$600,000 in 2019 repairs due to major flood damage in 2013 and proposed plan to demolish and construct a new facility.
- East Boulder Community Center Renovation: Added contributions for 2020 – \$300,000 total.
- Outdoor Lighting Compliance: Move majority of funding (\$190,000) to 2016 for execution with \$10,000 in 2015 for project planning and design.

### Unfunded Projects and Emerging Needs

- Parking Lot Repairs: Only partially funded with full replacement funding needed for the Municipal Service Center and Public Safety Building.
- Energy Efficiencies and Renewables: To achieve the city's new sustainability and greenhouse gas emission reduction goals, deeper energy efficiency projects and additional renewables may be required for city facilities and operations.
- Electric Vehicle Infrastructure: The wider use of electric vehicles in the city fleet, the Boulder community and in supporting a regional EV charging system will be needed to transition the transportation needs off fossil fuels.

[This page is intentionally blank.]

Table 6-3: 2015-2020 Funding Summary By Department

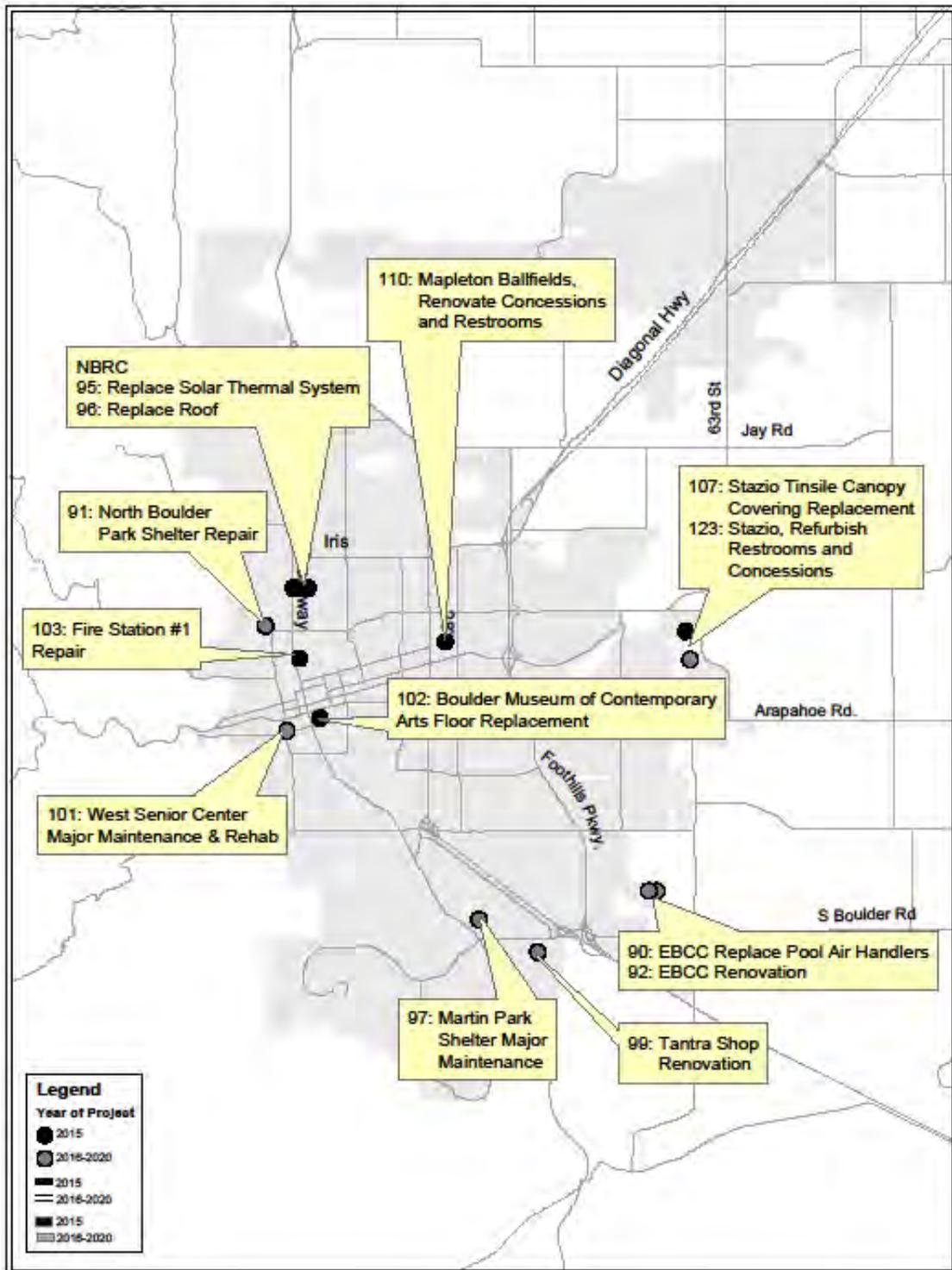
## PUBLIC WORKS - FACILITIES AND ASSET MANAGEMENT (FAM) / FLEET

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
North Boulder Recreation Center - Replace Solar Thermal System	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ -
Outdoor Lighting Compliance Improvements	200,000	10,000	190,000	-	-	-	-	200,000	-	-
Stazio Refurbish Restrooms and Concessions	160,000	160,000	-	-	-	-	-	160,000	-	-
East Boulder Community Center Renovation	1,100,000	-	-	-	100,000	100,000	100,000	300,000	-	800,000
Tantra Shop Renovation	300,000	-	-	-	-	300,000	-	300,000	-	-
West Senior Center Major Maintenance & Rehab	700,000	-	-	-	-	700,000	-	700,000	-	-
<b>Subtotal</b>	<b>\$ 2,810,000</b>	<b>\$ 520,000</b>	<b>\$ 190,000</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>\$ 1,100,000</b>	<b>\$ 100,000</b>	<b>\$ 2,010,000</b>	<b>\$ -</b>	<b>\$ 800,000</b>
<b>Capital Maintenance</b>										
Boulder Museum of Contemporary Arts - Floor Replacement	\$ 90,000	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90,000	\$ -	\$ -
Fire Station #1 - Repair Concrete Floor in Vehicle Bays and Exterior Ramps	150,000	150,000	-	-	-	-	-	150,000	-	-
Mapleton Ballfields, Renovate Concessions and Restrooms +	100,000	100,000	-	-	-	-	-	100,000	-	-
Miscellaneous Facility DET Projects	715,000	465,000	50,000	50,000	50,000	50,000	50,000	715,000	-	-
Miscellaneous Facility Maintenance Projects	2,415,000	370,000	415,000	380,000	400,000	400,000	450,000	2,415,000	-	-
North Boulder Recreation Center Roof Replacement	450,000	450,000	-	-	-	-	-	450,000	-	-
East Boulder Community Center - Replace Pool Air Handlers	500,000	-	500,000	-	-	-	-	500,000	-	-
Replaster Pools +	80,000	-	80,000	-	-	-	-	80,000	-	-
Stazio Tensile Canopy Covering Replacement	132,000	-	132,000	-	-	-	-	132,000	-	-
Martin Park Shelter Major Maintenance	169,000	-	-	169,000	-	-	-	169,000	-	-
North Boulder Park Shelter Repair	120,000	-	-	120,000	-	-	-	120,000	-	-
<b>Subtotal</b>	<b>\$ 4,921,000</b>	<b>\$ 1,625,000</b>	<b>\$ 1,177,000</b>	<b>\$ 719,000</b>	<b>\$ 450,000</b>	<b>\$ 450,000</b>	<b>\$ 500,000</b>	<b>\$ 4,921,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Capital Planning Studies</b>										
Facility Assessments	\$ 300,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 300,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 300,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 8,031,000</b>	<b>\$ 2,195,000</b>	<b>\$ 1,417,000</b>	<b>\$ 769,000</b>	<b>\$ 600,000</b>	<b>\$ 1,600,000</b>	<b>\$ 650,000</b>	<b>\$ 7,231,000</b>	<b>\$ -</b>	<b>\$ 800,000</b>



## City of Boulder Capital Improvement Projects, 2015 - 2020

PW / Facilities and Asset Management





**Project Name:** Boulder Museum of Contemporary Arts - Floor Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area 1
<b>Project Number:</b>		<b>Map Number:</b>	102
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Replace deteriorated, chipped and pitted first floor and stairway of the BMOCA building. Current floor is beyond repair and has large chips and divots which pose a tripping hazard. The current lease has the tenant, BMOCA, responsible for maintenance of the facility and the city responsible for repairs.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans           <ul style="list-style-type: none"> <li>Achieves Community Sustainability goals</li> <li>Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets           <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li><input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

None.

**Relationship with Other Departments**

Coordinate with tenant and Library and Arts Department on project timing to ensure minimize disruptions to events and showings.

**Change from Past CIP**

New addition to CIP.

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$5,000
Acquisition	
Construction	\$85,000
<b>Total Project Cost</b>	<b>\$90,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$90,000
Funding Total	(\$90,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$90,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$90,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**



**Project Name:** East Boulder Community Center - Replace Pool Air Handlers

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	East Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	90
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

Replace existing pool air handlers that were installed in 1990, are inefficient, and beyond their useful life.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance                             <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> <li>Provides capacity and flexibility in long term planning</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit                             <ul style="list-style-type: none"> <li>Fund includes sufficient reserves</li> </ul> </li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

### Public Process Status, Issues

None - permits will be applied for.

### Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in the annual prioritization of HVAC replacement projects and scheduling of facility maintenance during annual shutdowns to minimize disruption to the customers.

### Change from Past CIP

### Estimated Total Cost

<b>Project Cost</b>	
Planning	\$50,000
Acquisition	
Construction	\$450,000
<b>Total Project Cost</b>	<b>\$500,000</b>

### Unfunded Amount

<b>Unfunded Amount</b>	
Project Cost Total	\$500,000
Funding Total	(\$500,000)
<b>Total Unfunded</b>	<b>\$0</b>

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$500,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$2,000    **Funding Source:** From FAM 118 O&M funding.

### Additional Annual O&M Description:

For annual system maintenance



**Project Name:** East Boulder Community Center Renovation

**Project at a Glance**

**Project Type:** Capital Enhancement  
**Department:** PW/ Facilities & Asset Management  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** East Boulder  
**BVCPArea:** Area I  
**Map Number:** 92  
**CEAP Status:**

**Project Description**

Both the North Boulder Recreation Center and the South Boulder Recreation Center have had major renovations approximately every 20 years to accommodate new and changed programs and also ensure building code updates to the city's highest use facilities. This project will accomplish the same at East Boulder Community Center since it's construction in 1991.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

This project will tie into the Parks and Recreation Master Plan Update.

**Relationship with Other Departments** **Change from Past CIP**

FAM will continue to coordinate with Parks and Recreation and Human Services in identifying future renovation and replacement needs for the East Boulder Community Center along with working with Parks and Recreation on facility and program expansion needs that will be funded outside of FAM's FR&R account.

**Estimated Total Cost** **Unfunded Amount**

<b>Project Cost</b>		<b>Unfunded Amount</b>	
Planning	\$110,000	Project Cost Total	\$1,100,000
Acquisition		Funding Total	(\$300,000)
Construction	\$990,000		
<b>Total Project Cost</b>	<b>\$1,100,000</b>	<b>Total Unfunded</b>	<b>\$800,000</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0				\$100,000	\$100,000	\$100,000
<b>Total Funding Plan</b>	<b>\$300,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** **Funding Source:**  
**Additional Annual O&M Description:**



**Project Name:** Facility Assessments

**Project at a Glance**

<b>Project Type:</b>	Capital Planning Studies	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCP Area:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	94
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Funding is for study and analysis. Perform visual inspections and sampling of materials in city facilities to have an inventory of any asbestos, lead based paint, and other indoor air quality concerns. Identify code and safety deficiencies in existing facilities. The inventory will provide awareness for building occupants, maintenance staff, construction personnel, and emergency responders so as not to disturb the hazard. An inventory will also identify remediation projects, as needed. Expect a multi-year program to complete the 130-plus buildings managed by FAM and repeat the process.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>— Maintains and enhances city's business systems</li> <li>— Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>— Fund includes sufficient reserves</li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

None.

**Relationship with Other Departments**

FAM will coordinate with other departments in performing the inventory of the facilities and any subsequent remediation requirements so disruption to occupants and customers is minimized.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** **\$300,000**

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total \$300,000
- Funding Total (\$300,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
<b>Total Funding Plan</b>	<b>\$300,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

No additional O&M anticipated with this assessment.



**Project Name:** Fire Station #1 - Repair concrete floor in vehicle bays and exterior ramps

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	103
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Replace concrete floors in the fire station's vehicle bays and exterior concrete ramps due to cracks and subsiding. Newer, larger and heavier fire response vehicles are overloading the concrete floors.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans               <ul style="list-style-type: none"> <li>Achieves Community Sustainability goals</li> </ul> </li> <li><input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance               <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets               <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li><input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

None.

**Relationship with Other Departments**

Coordinate with Fire Department to phase work and ensure the station remains operable.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$15,000
Acquisition	
Construction	\$135,000
<b>Total Project Cost</b>	<b>\$150,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$150,000
Funding Total	(\$150,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$150,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**



**Project Name:** Mapleton Ballfields, Renovate Concessions and Restrooms +

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Crossroads
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	501XXX	<b>Map Number:</b>	110
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

This project upgrades electrical, lighting and HVAC systems to current building codes, upgrades plumbing system and fixtures for water conservation, and renews interior and exterior surface finishes.

+ Funding from other than General Fund FR&R:  
Fund 118 - Parks & Rec Major Maintenance, managed by FAM

### Relationship to Guiding Principles

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                 | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input type="checkbox"/> Achieves Community Sustainability goals                 | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| Includes sufficient funding for operation and maintenance                        | Fund includes sufficient reserves   |
| Maintains and enhances city's business systems                                   | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning |   |

### Public Process Status, Issues

None. Project design will be reviewed during the normal permitting process.

### Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in indentifying future renovation and replacement needs for the Mapleton Ballfields along with working with Parks and Recreation on facility and program expansion needs that will be funded outside of FAM's FR&R account.

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$10,000
Acquisition	
Construction	\$90,000

**Total Project Cost** **\$100,000**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$100,000
Funding Total	(\$100,000)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$100,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:**

#### Additional Annual O&M Description:

No additional operational costs will result from completing this project.



**Project Name:** Martin Park Shelter Major Maintenance

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	South Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area 1
<b>Project Number:</b>	501XXX	<b>Map Number:</b>	97
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project upgrades the plumbing systems and fixtures and renews interior and exterior surface finishes of this facility constructed in 1962. Minor cosmetic work totaling \$16,000 was last done in 2007. Code upgrades for the electrical systems will also be accomplished as required with any major renovation project.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans               <ul style="list-style-type: none"> <li>Achieves Community Sustainability goals</li> </ul> </li> <li>✓ Includes sufficient funding for operation and maintenance               <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets               <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

None. Project design will be reviewed during the normal permitting process.

**Relationship with Other Departments**

This project will be coordinated with the Parks & Recreation Department. The P&R Round 1, Capital Investment Strategy project improves the shelter's exterior to include ADA access to the shelters, lighting upgrades, amenities (benches/tables), bear proof trash/recycling receptacles and concrete flatwork. FR&R funding not available currently to accomplish with 2013/2014 CIS project.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$16,000
Acquisition	
Construction	\$153,000
<b>Total Project Cost</b>	<b>\$169,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$169,000
Funding Total	(\$169,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$0	\$0	\$169,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$169,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

# Facilities and Asset Management



**Project Name:** Miscellaneous Facility DET Projects

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	511702	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

City's participation in accomplishing small projects and advance project planning, less than \$50,000 each, that are done in conjunction with other new construction or expansion projects related to growth. Previous projects include: Valmont Butte engineering and environmental studies, Children, Youth and Family Services Addition, Outfitting the University Hill Police Annex, and Public Safety Building Space Analysis.

For 2015, \$415,000 is for planning studies associated with the Civic Area Plan. Consultants will assist with space programming and concept development. Expert consultants will be engaged to assist with the Farmer's Market concept, Canyon Complete Streets options and the city's new service/innovation approaches, and arts venue, among others. In addition, technical reports are required to provide detailed work for: advance project feasibility and planning, scoping and budgeting; identification of potential issues and options related to adaptive building reuse e.g. Canyon Theater at North Library, and site redevelopment (13th Street). The type of reports include due diligence work related to geotechnical conditions, hazardous materials surveys, topographical surveys, parking, flood requirements, and other potential project feasibility issues and cost impacts.

### Relationship to Guiding Principles

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Consistent with Master Plans                            | <input checked="" type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                 | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input type="checkbox"/> Includes sufficient funding for operation and maintenance          | <input type="checkbox"/> Fund includes sufficient reserves   |
| <input checked="" type="checkbox"/> Maintains and enhances city's business systems          | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning |  |

### Public Process Status, Issues

Any public process will be identified in conjunction with the overall project development. Project design will be reviewed by the Planning Department. Further design reviews will be conducted by the Landmarks Board, Design Advisory Board, and/or Planning Board as appropriate.

### Relationship with Other Departments

This project will be coordinated with the affected departments, dependent on the project.

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning  
Acquisition  
Construction

**Total Project Cost** **\$715,000**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total \$715,000  
Funding Total (\$715,000)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Capital Development Fund	\$0	\$170,350	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
General Fund	\$0	\$294,650	\$0	\$0	\$0	\$0	\$0
<b>Subtotal All Funds</b>	<b>\$0</b>	<b>\$465,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>

**Total Funding Plan** **\$715,000**

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:**

#### Additional Annual O&M Description:

No additional operational costs will result from completing these projects.



**Project Name:** Miscellaneous Facility Maintenance Projects

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	501452	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project addresses funding for on-going building replacement and miscellaneous projects costing less than \$50,000 each. Facility replacement and projects costing \$50,000 or more are individually listed in the CIP. Facility maintenance projects costing less than \$50,000 will be managed by the Facilities & Fleet Manager. Typical projects over the past 2 years have included roof evaluations, backflow prevention, parking lot repairs, sidewalk repairs, stair repairs, structural inspections, HVAC upgrades, and exterior masonry repairs and protective coatings.

This project is for an ongoing funding program.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
- ✓ Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
- ✓ Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

Any project associated with these funds will be taken through the appropriate public process and CEAP review as part of the conceptual design if needed. Project design will be reviewed by the Planning Department. Further design reviews will be conducted by the Boards and Commissions as appropriate.

**Relationship with Other Departments**

This project will be coordinated with the affected departments to reduce occupant and customer impacts.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$2,415,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total \$2,415,000
- Funding Total (\$2,415,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$370,000	\$415,000	\$380,000	\$400,000	\$400,000	\$450,000
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$370,000</b>	<b>\$415,000</b>	<b>\$380,000</b>	<b>\$400,000</b>	<b>\$400,000</b>	<b>\$450,000</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

No additional operational costs will result from completing these repair projects.

# Facilities and Asset Management



**Project Name:** North Boulder Park Shelter Repair

## Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	501XXX	<b>Map Number:</b>	91
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

## Project Description

This project upgrades the plumbing systems and fixtures, and renews interior and exterior surface finishes of this facility built in 1969. Minor cosmetic work totaling \$19,000 was last done in 2007. Electrical code upgrades will also be accomplished as required with major renovation projects.

## Relationship to Guiding Principles

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans                             <ul style="list-style-type: none"> <li>Achieves Community Sustainability goals</li> <li>Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets                             <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li><input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

## Public Process Status, Issues

None. Project design will be reviewed during the normal permitting process.

## Relationship with Other Departments

This project will be coordinated with the Parks & Recreation Department. The P&R Round 1, Capital Investment Strategy project improved the shelter's exterior to include ADA access to the shelters, lighting upgrades, amenities (benches/tables), bear proof trash/recycling receptacles and concrete flatwork. FR&R funding not available to time with CIS project.

## Change from Past CIP

## Estimated Total Cost

### Project Cost

Planning	\$12,000
Acquisition	
Construction	\$108,000
<b>Total Project Cost</b>	<b>\$120,000</b>

## Unfunded Amount

### Unfunded Amount

Project Cost Total	\$120,000
Funding Total	(\$120,000)
<b>Total Unfunded</b>	<b>\$0</b>

## Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$0	\$0	\$120,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$120,000</b>						

## Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

No additional operating costs are anticipated.



**Project Name:** North Boulder Recreation Center - Replace Solar Thermal System

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	95
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

In 2002, the North Boulder Recreation Center installed the largest solar thermal pool heating system in the nation, which helped it achieved its LEED Silver status. Overtime, the leading edge technology has had numerous leaks due to improperly designed fittings that can no longer be repaired without significant costs. The system is not currently operating. This project will replace the existing system with a more modern system that does not have the problems that the early systems have.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |   |

### Public Process Status, Issues

None - permit will be submitted for approval.

### Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in coordinating the replacement of this system so as to minimize impacts to customers.

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$30,000
Acquisition	
Construction	\$320,000
<b>Total Project Cost</b>	<b>\$350,000</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$350,000
Funding Total	(\$350,000)
<b>Total Unfunded</b>	<b>\$0</b>

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$350,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$350,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$5,000 **Funding Source:** FAM 118 O&M funding

#### Additional Annual O&M Description:

For glycol and occasional solar thermal tube replacements.

# Facilities and Asset Management



**Project Name:** North Boulder Recreation Center Roof Replacement

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	96
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

Replace horizontal roof sections on North Boulder Recreation Center in coordination with the 2015 CIP solar thermal replacement project. Existing roof was inspected and shown to have deteriorated connections to the parapet walls, where leaks are occurring. Project will include moving the ballasted solar pV system and returning it to the same location. Opportunities for increasing the roof's insulation properties will be explored.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans  | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input type="checkbox"/> Achieves Community Sustainability goals<br>Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit<br>Fund includes sufficient reserves                                      |
| <input checked="" type="checkbox"/> Maintains and enhances city's business systems  | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning  |   |

### Public Process Status, Issues

None.

### Relationship with Other Departments

Coordination with P&R department will be needed to minimize interruptions to NBRC users.

### Change from Past CIP

New addition to CIP.

### Estimated Total Cost

<b>Project Cost</b>	
Planning	\$10,000
Acquisition	
Construction	\$440,000
<b>Total Project Cost</b>	<b>\$450,000</b>

### Unfunded Amount

<b>Unfunded Amount</b>	
Project Cost Total	\$450,000
Funding Total	(\$450,000)
<b>Total Unfunded</b>	<b>\$0</b>

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$450,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$450,000</b>					

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**



**Project Name:** Outdoor Lighting Compliance Improvements

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area 1
<b>Project Number:</b>	501XXX	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Replace outdoor lighting fixtures to comply with Boulder Revised Code 9-9-16, Outdoor Lighting ordinance. Lights must conform not later than 15 years after July 15, 2003. Projects will occur as lighting technologies, such as light emitting diodes, LEDs, become more advanced and less costly. This project is only for outdoor lighting under FAM's responsibility. Other departments, such as Parks and Recreation, are programming separate lighting projects.

In 2016, perform an inventory of lights that are not yet in compliance. In 2016, replace remaining non-compliant lights. This could impact all 130 facilities managed by FAM. No inventory of non-conforming lights has been completed yet.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals               <ul style="list-style-type: none"> <li>Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> <li>Provides capacity and flexibility in long term planning</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit               <ul style="list-style-type: none"> <li>Fund includes sufficient reserves</li> </ul> </li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

Any project associated with these funds will be taken through the appropriate public process and reviewed as part of the conceptual design, if needed.

**Relationship with Other Departments**

Work will be coordinated with affected departments in fixture selection and ensuring outdoor lighting compliance of selected fixtures.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$10,000
Acquisition	
Construction	\$190,000
<b>Total Project Cost</b>	<b>\$200,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$200,000
Funding Total	(\$200,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$10,000	\$190,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$200,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** (\$10,000) **Funding Source:** Various department energy funds.

**Additional Annual O&M Description:**

Estimated annual energy savings by replacing with more energy efficient lighting.



**Project Name:** Pool Replastering+

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	501XXX	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

Replaster one of the recreational pools which will be determined at a future date. This 2016 project follows Parks and Recreation replastering pool projects in 2013, 2014 and 2015.

+ Funding from other than General Fund FR&R:  
Fund 118, Major Maintenance, P&R-managed by FAM

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans  | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input type="checkbox"/> Achieves Community Sustainability goals  | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance<br>Maintains and enhances city's business systems | Fund includes sufficient reserves<br>Meets legal mandates, improves public safety, leverages external investments,<br>promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning  |   |

### Public Process Status, Issues

This project location will be dependent on decision yet to be made on the Aquatics Facility Study and the Parks and Recreation pool replaster projects.

### Relationship with Other Departments

This project will be coordinated with Parks and Recreation following other re-plaster work they will be funding in 2014 and 2015.

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$1,000
Acquisition	
Construction	\$79,000
<b>Total Project Cost</b>	<b>\$80,000</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$80,000
Funding Total	(\$80,000)
<b>Total Unfunded</b>	<b>\$0</b>

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$0	\$80,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$80,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

No additional operational costs will result from completing this project.



**Project Name:** Stazio Refurbish Restrooms and Concessions

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	East Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area 1
<b>Project Number:</b>	501XXX	<b>Map Number:</b>	123
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project upgrades electrical and HVAC systems to current building codes, upgrades plumbing systems and fixtures, and renews interior and exterior surface finishes.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans               <ul style="list-style-type: none"> <li>Achieves Community Sustainability goals</li> <li>Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> <li>Provides capacity and flexibility in long term planning</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets</li> <li><input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit               <ul style="list-style-type: none"> <li>Fund includes sufficient reserves</li> <li>Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> </li> </ul> |
|---|---|

**Public Process Status, Issues**

None. Project design will be reviewed during the normal permitting process.

**Relationship with Other Departments**

This project has been moved to 2015 to be coordinated with the Parks & Recreation Department's 2015 ADA project.

**Change from Past CIP**

**Estimated Total Cost**      **Unfunded Amount**

<b>Project Cost</b>		<b>Unfunded Amount</b>	
Planning	\$16,000	Project Cost Total	\$160,000
Acquisition		Funding Total	(\$160,000)
Construction	\$144,000		
<b>Total Project Cost</b>	<b>\$160,000</b>	<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$160,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$160,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0      **Funding Source:**

**Additional Annual O&M Description:**



**Project Name:** Stazio Tensile Canopy Covering Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	East Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	501XXX	<b>Map Number:</b>	107
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Stazio Tensile Canopy was inspected in 2003 by the contractor that originally installed the structure. All cables, structural components and coverings were inspected and found to be sound and fully functional. Preventive maintenance was performed on the structure. The contractor noted in their report that the covering is nearing the end of its service life and should be replaced in approximately five years (2008). The contractor prepared a cost estimate for replacement of the covering. This project was originally scheduled for 2009; the delay to 2016 is allowable by accomplishing minor repairs in 2010 versus complete replacement.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans                             <ul style="list-style-type: none"> <li>Achieves Community Sustainability goals</li> <li>Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets                             <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> <li>Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> </li> </ul> |
|--|---|

**Public Process Status, Issues**

None. Project design will be reviewed during the normal permitting process.

**Relationship with Other Departments**

FAM will continue to coordinate with Parks and Recreation in assessing the tensile canopy annually to continue to lengthen its service life.

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$6,000
Acquisition	
Construction	\$126,000
<b>Total Project Cost</b>	<b>\$132,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$132,000
Funding Total	(\$132,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$0	\$132,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$132,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

No additional operational costs are anticipated from completing this project.



**Project Name:** Tantra Shop Renovation

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	South Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	99
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

Renovate the Tantra Park Shop for continuing use for Park Operations maintenance staff. This 3,000 square foot facility, constructed in 1984, needs repairs and renovations to major building systems. At this time, no specific scope has been identified for this project planned in 2019.

### Relationship to Guiding Principles

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans           <ul style="list-style-type: none"> <li>Achieves Community Sustainability goals</li> <li>Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets           <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li><input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

### Public Process Status, Issues

Future of Tantra property will be part of Parks and Recreation Master Plan.

### Relationship with Other Departments

FAM will continue to coordinate with Parks and Recreation in indentifying future renovation and replacement needs for the Tantra Park Shop.

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$30,000
Acquisition	
Construction	\$270,000
<b>Total Project Cost</b>	<b>\$300,000</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$300,000
Funding Total	(\$300,000)

<b>Total Project Cost</b>	<b>\$300,000</b>	<b>Total Unfunded</b>	<b>\$0</b>
---------------------------	------------------	-----------------------	------------

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$0	\$0	\$0	\$0	\$300,000	\$0
<b>Total Funding Plan</b>	<b>\$300,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**

# Facilities and Asset Management



**Project Name:** West Senior Center Major Maintenance & Rehab

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Facilities & Asset Management	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	501XXX	<b>Map Number:</b>	101
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

This project provides refurbishment and replacement of the facilities including HVAC, electrical, and plumbing systems. It renews all surface finishes including carpet, paint, and ceilings. Provides improvements to restrooms and adds a fire sprinkler system, which is currently lacking, to the entire facility as required by B.R.C. 10-8, Fire Prevention Code. Provides for requirements under the new 2010 ADA standards. Replaces 1995 roof sections as required.

This project is scheduled for 2019, but may change depending on the outcomes of the Civic Area Plan and the Human Services Department master plan.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans  | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input type="checkbox"/> Achieves Community Sustainability goals  | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance<br>Maintains and enhances city's business systems | Fund includes sufficient reserves   |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning  | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |

### Public Process Status, Issues

Project design will be reviewed during the normal permitting process and the master plans portions affecting this project will be approved by City Council.

### Relationship with Other Departments

This project will be coordinated with the Human Services Department and the Civic Area planning process. The kitchen was remodeled in 2006 by Meals on Wheels at a cost of approximately \$400,000. This cost has been subtracted from the estimated refurbishment cost noted in the 2005 FAM Master Plan of \$1,228,000, leaving an estimated cost of \$828,000. Additional work was accomplished in the Energy Performance Contracts and a \$140,000 refurbishment of the office areas was performed due to the Sept 2013 flood.

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$70,000
Acquisition	
Construction	\$630,000
<b>Total Project Cost</b>	<b>\$700,000</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$700,000
Funding Total	(\$700,000)
<b>Total Unfunded</b>	<b>\$0</b>

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Facility Renovation & Replacement Fund	\$0	\$0	\$0	\$0	\$0	\$700,000	\$0
<b>Total Funding Plan</b>	<b>\$700,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

[This page is intentionally blank.]

## Funding Overview

The Fire and Rescue Department is funded by the General Fund. Currently there is no specific capital funding source for General Fund departments and capital needs are addressed on a case by case basis, as funds are available. Strategies for addressing unfunded capital needs are being developed (see Appendix B) and will be presented to council in the coming months.

Potential sources of funding for the capital projects noted below include each of the following or any combination of :

- An increase in sales and use tax
- An increase in property tax mill levy
- Bond funding
- Use of existing operating funding to build a capital fund or pool of money available for capital projects.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects citywide. CIB funding is indicated by the following symbol: 

There are currently no specific Fire–Rescue projects proposed in the 2015–2020 CIP.

## Accomplishments and Highlights

Projects to be Completed in 2014:

- None

Projects Expected for Completion in 2015:

-  Wildland Fire Station: see FAM

Projects Starting in 2015, but not Completed:

- None

Highlights of 2015–2020 Projects:

- None



### Relationship to Guiding Principles

#### CIP Guiding Principles:

The fire station projects are guided by strategies and initiatives in the 2012 Fire-Rescue Master Plan. All of the listed projects help the Fire and Rescue Department maintain and improve public safety. Proper fire station location improves accessibility to services provided to the community by the Fire and Rescue Department and ensures a timely response to emergencies occurring in the neighborhood. The construction or remodel of facilities will use Leadership in Energy and Environmental Design (LEED) targets to ensure energy efficiency. Each project listed identifies the estimated on-going funds needed to operate and maintain the project.

#### Prioritization:

Projects listed below in Unfunded Projects and Emerging Needs are in priority order based on the critical need, degree of deficiency in each project, and the degree to which the project advances efficiency or community livability goals. Station 3 relocation is listed first because of its susceptibility to flooding and impact to our emergency response system if it were out of service. The remaining facilities position on the list reflects the degree to which each station does not fulfill the department's needs for effective, efficient and safe fire station design.

#### Projects Not in Master Plans:

The following projects are not specified in the master plan and are added here because of their expense, over \$50,000, and life cycle, at least 15 years.

- Fire Training Center (FTC) Phase 2: Driving area and storage building
- Fire Training Center (FTC) Phase 3: Additional Classroom, Office and Conference room space

### New Projects

None

### Operation and Maintenance Impacts

The primary category for the Fire and Rescue Department emerging needs are facilities. Three of the seven existing fire stations are over fifty years old and all are inadequately sized for today's needs and future capacity. A comprehensive community risk analysis is underway including response times from existing stations and emergency call demand loads. Preliminary findings demonstrate potential better locations for some stations and reaffirm others are correctly located. Further analysis is needed before final recommendations on station relocations are made.

### Deferred, Eliminated, or Changed Projects

None



### Unfunded Projects and Emerging Needs

- Relocate Fire Station 3 out of the 100-year floodplain, co-locate with Fire Administration Offices, and construct a separate storage facility for fire vehicles and equipment.
  - In 2011, 13 sites were identified as potential locations for Station 3. After analyzing multiple criteria, six sites remained. Since that time, three of those six could still be possible, each with their own acquisition issues. The top site is still the Mapleton ball fields. This station needs to be 17,000 square feet to house two fire engines and crews plus a battalion chief, the administration building needs to be 11,000 square feet and the storage building 10,000 square feet.
  - One-time Buildings \$12,725,000, Land up to \$8,600,000, On-going \$459,000
- Replace Fire Station 4 at or near the current location of 4100 Darley Avenue.
  - Constructed in 1967 with 2,000 square feet this station is too small and needs to be 11,000 square feet to house one fire engine and crew.
  - One-time Building \$4,125,000, Land up to \$2,000,000, On-going \$165,000
- Replace Fire Station 6 currently located at 5145 N 63<sup>rd</sup> Street
  - Constructed in 1979 with 3,435 square feet this station is too small and needs to be 11,000 square feet to house one fire engine and crew.
  - We are currently exploring the possibility of co-locating our fire engine and crew with Boulder Rural in their station located at 6230 Lookout Rd. The building and land at Station 6 could be sold.
  - If this is not possible a One-time \$4,125,000, On-going \$165,000
- Replace Fire Station 2 at or near the current location of 2225 Baseline Road.
  - Constructed in 1959 with 4,752 square feet this station is too small and needs to be 15,333 to house two fire engines and crews.
  - One-time Building \$5,737,500, Land up to \$3,500,000, On-going \$229,500
- Replace Fire Station 5 at or near the current location of 4365 19<sup>th</sup> Street.
  - Constructed in 1992 with 3,622 square feet this station is too small and needs to be 15,333 to house two fire engines and crews.
  - One-time Building \$5,737,500, Land up to \$1,500,000, On-going \$229,500
- Remodel Fire Station 1 at or near the current location of 2441 13<sup>th</sup> Street.
  - Constructed in 1957 at 7,941 square feet this station is too small and poorly designed. It needs to be 17,000 square feet to house two fire engines and crews plus a battalion chief.
  - One-time Building \$3,220,000, On-going \$128,800
- Remodel Fire Station 7 at or near the current location of 1380 55<sup>th</sup> Street.
  - Constructed in 2000 with 5,081 square feet this station is too small and needs to be 11,000 square feet to house one fire engine and crew.
  - One-time Building \$2,100,000, On-going \$42,000.
- Fire Training Center Phase 2 – Driving area and storage building
  - Construct a concrete driver training area totaling approximately 200,000 square



feet. This was approved as a future phase of improvements in the original development approval. Construct a 10,000 square foot storage building for training props and equipment.

- One-time Concrete \$2,000,000, Building \$2,500,000, On-going \$60,000.
- Fire Training Center Phase 3 – Additional classroom and office space.
  - To complete the original design of facilities eliminated in the construction due to budget constraints add more classrooms, offices and conference room space totaling 4,000 square feet.
  - One-time \$1,400,000, On-going \$56,000.

**Table 7-1: Unfunded Projects**

Description	One-Time			On-Going
	Building	Land	Equipment	
Station 3/ Admin/ Storage	\$12,725,000	\$8,600,000	\$ 0	\$ 459,000
Station 4	\$ 4,125,000	\$2,000,000	\$ 0	\$ 165,000
Station 6	\$ 4,125,000	\$ 0	\$ 0	\$ 165,000
Station 2	\$ 5,737,500	\$3,500,000	\$ 0	\$ 229,500
Station 5	\$ 5,737,500	\$1,500,000	\$ 0	\$ 229,500
Station 1	\$ 3,220,000	\$ 0	\$ 0	\$ 128,800
Station 7	\$ 2,100,000	\$ 0	\$ 0	\$ 42,000
FTC Phase 2	\$ 4,500,000	\$ 0	\$ 0	\$ 60,000
FTC Phase 3	\$ 1,400,000	\$ 0	\$ 0	\$ 56,000
<b>TOTAL</b>	<b>\$43,670,000</b>	<b>\$15,600,000</b>	<b>\$ 0</b>	<b>\$1,534,800</b>

## **Program Overview**

The City of Boulder Greenways System is comprised of a series of corridors along riparian areas including Boulder Creek and its 14 tributaries, which provide an opportunity to integrate multiple objectives, including habitat protection, water quality enhancement, storm drainage and floodplain management, alternative transportation routes for pedestrians and bicyclists, recreation and cultural resources.

The Greenways CIP follows an opportunistic approach, contributing funding toward projects that are being completed by other departments or private development in order to meet the various objectives of the Greenways Program. The Greenways CIP also looks to leverage funds with outside agencies in order to move projects forward that meet more than one objective of the Greenways Program, but may not be the highest priority when evaluating any one particular objective. Projects included in the Greenways CIP are typically called out in the Greenways Master Plan and are projects that Greenways staff can take the lead in coordinating.

## **Funding Overview**

The total 2015 Greenways capital budget is \$320,441, with \$105,000 in the operating budget. Greenways projects are funded from the Transportation Fund, Stormwater and Flood Management Utility Fund, and the Lottery Fund. Annual funding distribution for the Greenways Capital Program for 2015 is as follows:

- Transportation: \$97,500
- Flood Utility: \$97,500
- Lottery Fund: \$125,441

Starting in 2015, the Lottery contribution is expected to be reduced to \$125,441, based on Greenways receiving 15% of the city's funding allocation, with a projection of total Lottery proceeds being \$836,275.

## **2013 Flood Impact**

The Stormwater and Flood Management Utility CIP budget was used to fund flood recovery efforts associated with drainageway infrastructure repair and the restoration of conveyance capacity. Sediment removal from the multi-use paths and path repair along the Greenways was funded through the Transportation and Parks and Recreation budgets.



As a result of the September flood, new major drainageway improvement projects have been identified in the 2015–2020 Stormwater and Flood CIP. The details of these improvements will be determined through the major drainageway mitigation planning and CEAP processes, which may identify future Greenways projects. Funding has therefore not been included in the 2015–2020 Greenways CIP for any of these potential new improvements.

## Accomplishments and Highlights

Projects Completed in 2014:

- Goose Creek Restoration Project includes restoration improvements along Goose Creek between Foothills Highway and 55<sup>th</sup> Street. This project is expected to be completed in 2014. This project is primarily being funded through a Section 206 Restoration grant through the U.S. Army Corps of Engineers. The city’s 35% funding match is being met mostly through credits from city owned real estate.
- A flood mitigation major drainageway plan for South Boulder Creek is anticipated to be completed by the end of 2014.
- The Urban Drainage and Flood Control District also completes maintenance projects along the major drainageways. In 2014 this includes a request for sediment removal along Wonderland Creek from Foothills Parkway to the confluence with Goose Creek. This maintenance project will help provide the necessary conveyance capacity required when the Wonderland Creek Greenways Improvement Project is completed.



Fourmile Canyon Creek Greenways Improvements

Projects Expected for Completion in 2015:

- Fourmile Canyon Creek at 19<sup>th</sup> Street is in preliminary design but was put on hold following the September 2013 flood event. It is anticipated that development of this project will continue in late 2014 with a CEAP for the stream reach upstream of Upland Avenue to be completed in 2015.
- Flood mapping studies for Upper Goose and Twomile Canyon Creeks; Skunk, Kings Gulch and BlueBell Canyon Creeks; Boulder Slough and Bear Canyon Creek are anticipated to be completed in 2015.

Projects Starting in 2015, but Not Completed:

- Construction of the Wonderland Creek Foothills to 30<sup>th</sup> Greenways Improvement Project: is anticipated to begin in 2015.



- Construction of the Wonderland Creek (28<sup>th</sup> Street) Diagonal to Winding Trail Greenways Improvement Project: is anticipated to begin in 2015.
- A flood mitigation plan was initiated in 2014 for Boulder Creek, Bear Canyon Creek and Gregory Canyon Creek: is anticipated to be completed 2015.

### Highlights of 2016–2020 Projects:

The focus of the 2015–2020 Greenways CIP is on flood mitigation, bicycle and pedestrian multi-use paths and underpasses, and habitat and water quality improvements along the Fourmile and Wonderland Creek corridors. In addition to the projects along Fourmile Canyon Creek and Wonderland Creek, possible habitat restoration projects during the next few years include:

- Stream bank restoration: Boulder Creek at Eben Fine Park
- Confluence of Bear Creek and Boulder Creek at Foothills Community Hospital
- Dry Creek habitat improvements: Flatirons Golf Course
- Goose Creek: Railroad to 47<sup>th</sup> Street tree plantings
- South Boulder Creek: Minimum stream flow
- Removal of Russian Olive trees: East of 75<sup>th</sup> Street along Boulder Creek
- Fish Passage enhancement projects in association with Fishing is Fun grants.

## Relationship to Guiding Principles and Prioritization

### CIP Guiding Principles:

Greenways projects are identified in multiple master plans and meet the community sustainability goals. Most of the Greenways projects leverage outside or interdepartmental funding. Greenways habitat improvements seek to be sustainable and are intended to reduce the future maintenance required.

The Greenways CIP has been developed within the context of and is consistent with the Boulder Valley Comprehensive Plan (BVCP), the Transportation Master Plan (TMP), the major drainageway plans, the Comprehensive Flood and Stormwater Master Plan and the Greenways Master Plan. The Greenways Master Plan was updated in 2011 to reflect improvements that had been completed, and adopted changes that have been made in other master plans, city policies and ordinances that affect the Greenways Program since the last Master Plan update in 2001. Information from other existing master plans for seven additional tributaries was also incorporated into the Greenways Master Plan update. Future opportunities will also be coordinated with the Open Space and Mountain Park's Grassland Plan and Visitor Master Plan and Trail Study Area plans where appropriate.

### Prioritization:

Many of the Greenways projects shown in the CIP are being designed and constructed in coordination with major flood or transportation improvements. The Greenways funding associated with these projects focuses on habitat restoration, water quality improvements and



trail connections. In addition to leveraging funding with the Transportation and Flood Utilities budgets, funding for Greenways projects is also available through the Urban Drainage and Flood Control District and Federal Transportation funds.

Projects not in Master Plans:

It should be noted that the city is still recovering from the September 2013 flood event that resulted in extensive flooding along most of the city's major drainageways. Following the flood, additional funds have been allocated in the Flood Utility CIP to reflect an increased interest in pursuing flood mitigation efforts along the city's major drainageways. Continued evaluation of the impacts from this event may result in additional changes to the Flood Utility and Greenways CIP in upcoming years.

### **New Projects**

The 2015 – 2020 CIP continues to focus on Fourmile Canyon and Wonderland Creeks. The Flood Utility is currently updating the flood mapping for the following creeks and tributaries: Boulder Creek, Boulder Slough, Upper Goose Creek, Twomile Creek, Skunk Creek, Bluebell Creek and King's Gulch. Once the new mapping has been approved by FEMA, a flood mitigation analysis will be completed for each of these tributaries to determine if it is economically feasible to reduce the flood risk through construction of capital improvements. A flood mitigation plan is being initiated in 2014 for Boulder Creek, Gregory Canyon Creek and Bear Canyon Creek. Additional information on these efforts is provided in the Utilities Division Capital Improvement Program overview. This plan will identify potential economically feasible CIP projects which may provide opportunities for future Greenways improvements.

### **Operation and Maintenance Impacts**

\$105,000 is budgeted each year for Greenways operations and maintenance. \$80,000 of the operating budget is dedicated to habitat maintenance. The Greenways habitat crew works closely with Parks and Open Space maintenance staff to provide on-going maintenance, as well as on collaborative projects as part of the operations budget. Major drainageway improvements are maintained by the flood maintenance staff and multi-use paths and underpasses are maintained by either Transportation or Parks maintenance, depending upon jurisdiction.

### **Deferred Projects, Eliminated or Changed Projects**

None.

### **Unfunded Projects and Emerging Needs**

None.



### **Board Action**

The Greenways Advisory Committee met on May 22, 2014 and unanimously (5-0) recommended approval of the 2015-2020 Greenways Program CIP to Planning Board and City Council.

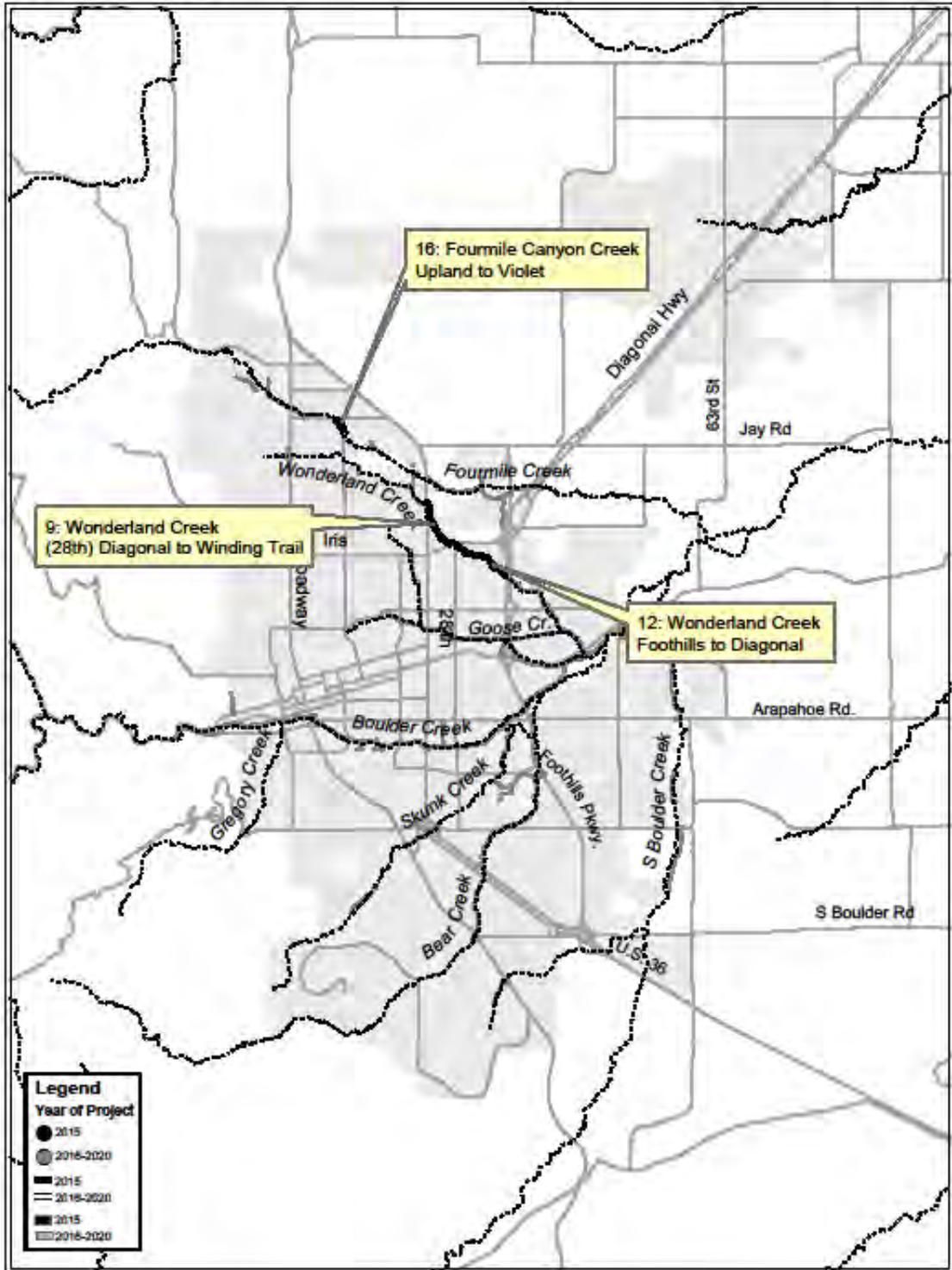
Table 8-1: 2015-2020 Funding Summary By Department

## PUBLIC WORKS - GREENWAYS

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Wonderland Creek (28th) Kalmia to Winding Trail	\$ 7,805,657	\$ 270,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 270,441	\$ 295,000	\$ -
Fourmile Canyon Creek Upland to Violet	6,102,205	-	270,441	270,441	270,441	270,441	270,441	1,352,205	-	-
Wonderland Creek Foothills to 30th	13,424,808	-	-	-	-	-	-	-	391,716	-
<b>Subtotal</b>	<b>\$ 27,332,670</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 270,441</b>	<b>\$ 1,622,646</b>	<b>\$ 686,716</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Miscellaneous Water Quality, Restoration and Trail Improvements	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000	\$ 50,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 300,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 27,332,670</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 320,441</b>	<b>\$ 1,922,646</b>	<b>\$ 736,716</b>	<b>\$ -</b>



### City of Boulder Capital Improvement Projects, 2015 - 2020 PW / Greenways





**Project Name:** Fourmile Canyon Creek Upland to Violet Flood Mitigation

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	North Boulder
<b>Department:</b>	PW/ Greenways	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	81
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	no

**Project Description**

This project includes improvements to Fourmile Canyon Creek from Upland to Violet, flood mitigation, environmental restoration and off-street trail connections. These improvements will be done in conjunction with Greenways, Transportation Division and the Parks Department. The Greenways Master Plan, Transportation Master Plan and Fourmile Flood Mitigation Plan show a path connection from Upland to Violet with flood/bicycle underpasses under Violet and Upland Avenues. The path connection will traverse Violet Park. 100-year flood improvements are proposed for the area around Crest View Elementary School. A project CEAP will be completed to determine the details of the project.

In response to the September 2013 flood event, additional flood mitigation funding is proposed for this drainageway in 2019 and 2020. Funding was also added in 2020 from Greenways.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The CEAP for this project will be reviewed by the Greenways Advisory Committee.

**Relationship with Other Departments**

All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Planning Department and Transportation and Utilities Divisions. Work on Violet Park site will be coordinated with the Parks Dept.

**Change from Past CIP**

Additional funding is proposed in 2019 and 2020

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$900,000
Acquisition	\$600,000
Construction	\$4,602,205
<b>Total Project Cost</b>	<b>\$6,102,205</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$6,102,205
Funding Total	(\$6,102,205)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Tributary Greenways	\$0	\$0	\$270,441	\$270,441	\$270,441	\$270,441	\$270,441
Stormwater & Flood Management Utility Fund	\$0	\$0	\$500,000	\$500,000	\$1,000,000	\$1,500,000	\$1,250,000
<b>Subtotal All Funds</b>	<b>\$0</b>	<b>\$0</b>	<b>\$770,441</b>	<b>\$770,441</b>	<b>\$1,270,441</b>	<b>\$1,770,441</b>	<b>\$1,520,441</b>
<b>Total Funding Plan</b>		<b>\$6,102,205</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$1,000 **Funding Source:** Stormwater and Flood and Transportation will provide maintenance  
**Additional Annual O&M Description:**  
 will be covered by existing maintenance budgets



**Project Name:** Miscellaneous Water Quality, Restoration and Trail Improvements

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Greenways	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Miscellaneous water quality, habitat restoration and trail improvements projects.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>    Maintains and enhances city's business systems</li> <li>✓ Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>✓ Fund includes sufficient reserves</li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

Projects will be coordinated with Transportation, Utilities, Parks and Open Space or the developers of a property.

**Relationship with Other Departments**

Projects are developed with input from the City's Transportation, Utilities, Open Space, Parks Department, Boulder County and as well as through coordination with developers.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$350,000

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total  
Funding Total (\$350,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Tributary Greenways	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
<b>Total Funding Plan</b>	<b>\$350,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:

**Additional Annual O&M Description:**

These projects are enhancements to existing conditions and will be maintained by the city's Greenways habitat maintenance crew and/or Parks and Open Space maintenance staff. Initial maintenance levels when the project is first constructed will be higher, but ultimately these projects should require less maintenance than the current conditions dictate.



**Project Name:** Wonderland Creek 28th Street Greenways Improvement Project

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Crossroads
<b>Department:</b>	PW/ Greenways	<b>BVCPArea:</b>	Area 1
<b>Project Number:</b>	431012	<b>Map Number:</b>	9
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	CEAP was completed in early 2013

**Project Description**

The Wonderland Creek Greenways Improvement Project at 28th Street involves the construction of flood mitigation improvements along Wonderland Creek from the Diagonal Highway to Winding Trail Drive, including two bicycle and pedestrian underpasses, at 28th Street and Kalmia Ave. The underpasses also serve as flood conveyance. These improvements are shown in the Greenways and Transportation Master Plans. Flood improvements, based on the Fourmile and Wonderland Flood Mitigation Plan and the Comprehensive Flood and Stormwater Master Plan, are being designed to convey the 100-year storm event.

Project funding includes \$900,000 from Federal TIP (\$100,000 in 2013 and \$800,000 in 2014) and \$275,000 from the Urban Drainage and Flood Control District.

The project is anticipated to be completed in 2016.

In response to the September 2013 flood event, money budgeted in prior years for this project has been used for flood recovery efforts. A portion of this funding is expected to be reimbursed through FEMA and will go into the fund balance. Funding for this project is now shown in 2015 and is proposed to be bonded.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- ✓ Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
- ✓ Maximizes efficiency and demonstrates positive cost/benefit
- ✓ Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The CEAP was completed in early 2013.

**Relationship with Other Departments**

All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Planning Department and Transportation and Utilities Divisions. There are no Parks or Open Space parcels in this reach of Wonderland Creek.

**Change from Past CIP**

Funding for this project is now shown in 2015 and is proposed to be bonded.

Estimated Total Cost		Unfunded Amount	
Project Cost		Unfunded Amount	
Planning	\$1,200,000	Project Cost Total	\$7,805,657
Acquisition	\$200,000	Funding Total	(\$7,805,657)
Construction	\$6,405,657		
<b>Total Project Cost</b>	<b>\$7,805,657</b>	<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Tributary Greenways	\$295,000	\$270,441	\$0	\$0	\$0	\$0	\$0
Stormwater & Flood Management Utility Fund	\$1,165,216	\$6,075,000	\$0	\$0	\$0	\$0	\$0
<b>Subtotal All Funds</b>	<b>\$1,460,216</b>	<b>\$6,345,441</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Funding Plan</b>	<b>\$1,460,216</b>	<b>\$6,345,441</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$1,000 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

**Additional Annual O&M Description:**  
will be covered by existing maintenance staff



**Project Name:** Wonderland Creek Foothills to 30th Greenways Improvement Project

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Palo Park
<b>Department:</b>	PW/ Greenways	<b>BVCPArea:</b>	Area 1
<b>Project Number:</b>	431011	<b>Map Number:</b>	12
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	CEAP Completed

**Project Description**

The Wonderland Creek Greenways Improvement Project involves the construction of a multi-use path and flood mitigation improvements along Wonderland Creek from Foothills Highway to the Diagonal Highway. These improvements are shown in the Greenways and Transportation Master Plans. The path connection will include an underpass at the Burlington Northern Railroad crossing near Foothills Highway and an at-grade crossing of Iris Avenue and 34th Street. Flood improvements, based on the Fourmile and Wonderland Flood Mitigation Plan and the Comprehensive Flood and Stormwater Master Plan, are being designed to convey the 100-year storm event and will include a box culvert under Iris Avenue. No flood improvements are being made along the existing channel north of Iris Avenue, as only one commercial structure is located in the 100-year floodplain and it is elevated.

Project funding includes \$2 million in Federal TIP and \$1.8 million from the Urban Drainage and Flood Control District.

The project is anticipated to be completed in 2016.

In response to the September 2013 flood event, money budgeted in prior years for this project has been used for flood recovery efforts. A portion of this funding is expected to be reimbursed through FEMA and will go into the fund balance. Funding for this project is now shown in 2015 and is proposed to be bonded.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

Flood mitigation planning was completed in 2009. A CEAP was completed for this project.

**Relationship with Other Departments**

All work along the Greenways is coordinated through the Greenways staff group that includes representatives from the Open Space Department, Parks and Recreation Department, Environmental Affairs, Planning Department and Transportation and Utilities Divisions. Work on Howard Houston Park will be coordinated with the Parks Dept.

**Change from Past CIP**

Funding for this project is now shown in 2015 and is proposed to be bonded.

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$2,000,000
Acquisition	\$200,000
Construction	\$11,224,808
<b>Total Project Cost</b>	<b>\$13,424,808</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$13,424,808
Funding Total	(\$13,424,808)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Tributary Greenways	\$391,716	\$0	\$0	\$0	\$0	\$0	\$0
Stormwater & Flood Management Utility Fund	\$3,033,092	\$10,000,000	\$0	\$0	\$0	\$0	\$0
<b>Subtotal All Funds</b>	<b>\$3,424,808</b>	<b>\$10,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Funding Plan</b>	<b>\$13,424,808</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$1,000 **Funding Source:** will be covered by existing maintenance staff  
**Additional Annual O&M Description:**

[This page is intentionally blank.]

## Funding Overview

Following a 2009 ballot measure to remove Taxpayer Bill of Rights (TABOR) property tax revenue limits, the City has appropriated approximately \$350k per year from the General Fund to a new Information Technology CIP. Though often supplemented by limited operating transfers from departments such as IT, this allocation has been the primary, predictive revenue source for IT capital investments, particularly major software procurements. This has resulted in a 2014 fund balance of nearly \$1.6 million primarily dedicated to supplement the critical, bond-funded finance, human resources and payroll system) replacement project.

Both the Computer Replacement Fund (CRF) and the Telecommunications Fund (TF) have been used to progressively accumulate replacement reserves for existing personal computers, server equipment, network infrastructure, central telephone systems and associated operating system and database costs. Last year, the capital elements of the CRF were added to the portfolio of IT CIP projects. The Citywide telephone system was recently added, as well. These systems represent the critical IT capital infrastructure upon which all the major IT CIP projects and existing City computer applications fundamentally depend.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by IT. CIB funding (including partial funding) is indicated by the following symbol: 



The City of Boulder website

## Accomplishments and Highlights

Projects Completed in 2014:

-  Complete the implementation of financial modules from the Tyler Munis system: Following extensive process evaluation, business process redesign and other implementation activities, the finance modules of the integrated Tyler Technologies “Munis” finance, payroll and human resources product are planned for final configuration, testing and staff training by the end of 2014. Estimated live operation of the finance modules is January 2015, concurrent with the beginning of the new fiscal year. (Funded by bond proceeds and IT CIP)



### Projects Expected for Completion in 2015

-  Complete the implementation of payroll and human resources modules of Tyler Munis system: Following final configuration, testing and staff training activities, the new payroll and human resources modules of the Tyler Technologies “Munis” system are expected to be operational at the beginning of April 2015. (Funded by bond proceeds and IT CIP)
-  2015 elements of the ongoing document management system implementation program: This project continues the work begun in 2012 to plan and execute the expansion of automated document management and digital imaging technologies to underserved departments and the public. Initial implementation of the new on-line archival records system and initial upgrading and expansion of the Citywide LaserFiche document management system will continue into early-2015. (Funded by bond proceeds and departmental reserves)
- Central IT Infrastructure enhancements: The City’s virtual server hardware, software and storage systems are scheduled for replacement in 2015. This will include not only upgrades to central computer hardware, but will add an analysis of current and emerging storage and server technologies to ensure an optimal solution with available funds. (Funded by earmarked Computer Replacement Fund reserves)

### Projects Starting in 2015, but Not Completed:

-  Pilot business intelligence system: In conjunction with the major system replacement projects listed above, this project was originally designed to implement relatively stand-alone, pilot technologies that collect, store, analyze, and report on data – presenting a management-level view (e.g., dashboard) of the results. This functionality will now be delivered via capabilities in systems such as the new finance, human resources and payroll system replacement implementation. (Funded by bond proceeds, accumulated IT CIP reserves and IT operating funds)
-  Begin implementation of new integrated permits, licensing and land records system: Following a needs assessment and procurement process undertaken in 2013, the EnerGov system was selected in early-2014 and implementation of this critical system replacement project will begin in mid-2014. The new system is estimated to reach live operation by the third quarter of 2016. (Funded by bond proceeds and restricted fund operating reserves)
- Asset and Maintenance Management software improvements: After concluding that the asset and maintenance management capabilities of the Tyler Munis (financial software) and EnerGov (permits and licensing software) products were not sufficient to meet citywide business needs, a consultant is being engaged to undertake an organization-wide reassessment of automation needs and business process improvement opportunities in these areas. The analysis will consider the capabilities of current



systems and recommend whether a single, integrated product or a distributed, “best of breed” approach should be undertaken to address organizational needs. (Funded by IT capital funds)

### Highlights of 2015–2020 Projects:

- New finance, payroll and human resources system implementation
  - Complete the implementation of payroll and human resources modules of the Tyler Munis system (2015)
- Virtual server and storage infrastructure enhancements (2015)
- Ongoing implementation of document management implementation program (2015–2017)
- New permits, licensing and land records system implementation (2016)
- Replacement of security administration systems (2016)
- Asset and maintenance management software improvements (2016–2017)
- Incremental central telephone system hardware and software upgrades (2016–2019)

### Relationship to Guiding Principles and Prioritization

#### CIP Guiding Principles:

The current IT Strategic Plan serves as the Master Plan for major, citywide automation initiatives over the planning horizon (mid–2009 through 2014). IT capital projects are integral to maintaining, supporting and enhancing city-wide business systems.

#### Prioritization:

Projects are further categorized using the city’s business model approach to establish relative priorities. The comprehensive list of both completed and pending projects from the Plan is listed on the next page.



Figure 9-1: IT Strategic Plan Projects

IT Projects	Fiscally Constrained			Action			Vision		
	Essential	Desirable	Discretionary	Essential	Desirable	Discretionary	Essential	Desirable	Discretionary
<b>1. Service Quality and Accessibility</b>									
1.1 Develop eGovernment strategic plan		X							
1.2 Redesign the City's website				X					
1.3 Complete document management implementation				X					
<b>2. IT Service and Decision Making Alignment</b>									
2.1 Implement citywide IT governance	X								
2.2 Establish IT performance measures	X								
2.3 Create IT CIP fund	X								
2.4 Align IT charges with services	X								
2.5 Conduct financial management/ERP needs assessment					X				
2.6 Develop a document management implementation plan		X							
2.7 Adopt IT portfolio management						X			
2.8 Create a customer account representative position					X				
2.9 Centralize infrastructure and customer services functions	X								
2.10 Implement central IT service model enhancements				X					
<b>3. Efficiency and Effectiveness</b>									
3.1 Implement an integrated finance/HR system				X					
3.2 Implement citywide maintenance management automation				X					
3.3 Implement permit management				X					
<b>4. Innovation</b>									
4.1 Pilot a business intelligence system					X				
4.2 Create a plan for establishing a county/city GIS group		X							
<b>5. Quality, Sustainable IT Infrastructure</b>									
5.1 Migrate and optimize servers	X								
5.2 Complete replacing phone system with VoIP	X								
5.3 Conduct IT security audits/assessments					X				

A major update to the IT Strategic Plan is currently underway covering the period from 2015 to 2018.

Projects not in Master Plan:

The IT Strategic Plan serves as the department's master plan.

New Projects

N/A

### Operation and Maintenance Impacts

Operation of IT systems is included in the department's operating budget. IT is participating in a citywide effort to analyze and assess replacement needs and funding structures, including a look

## Information Technology

---



to how future technological changes and technology use behaviors may inform replacement charging models for the department's internal service funds.

### **Deferred Projects, Changes and Unfunded Needs**

None

### **Unfunded Projects and Emerging Needs**

Though critical, short-term technology investment needs are significantly aided by the one-time funding from the recent capital bond initiative, current annual IT CIP funding allocations of roughly \$350k annually will not address the funding needs associated with new, emerging software-based automation opportunities that will continually arise. In addition, current ongoing CIP funding will not address the need to accumulate reserves for future replacements and/or expansion of critical enterprise software (e.g. finance and payroll) and departmental systems (e.g. police records management, parks and recreation registration, court case management and many others).

From a broader perspective, the Computer Replacement and Telecommunication internal service funds currently used to accumulate reserves for future IT infrastructure replacement (e.g. PCs, networks, servers, telephones, etc) are based on a funding model that only accounts for the replacement of current systems. As central and mobile computing infrastructure (e.g. mobile devices, wireless networks, virtualized servers, associated security systems), data storage, and use of cloud-based applications and data storage expand significantly over the next several years, we lack capital funding to address infrastructure capacity needs to sustain them.

A focus of the pending major update to the IT Strategic Plan (2015–2018) will include identification and costing of expanded automation and deferred capital replacement needs. At a basic level, it is anticipated that the updated Plan will move beyond planning for the needs of only enterprise systems (those impacting nearly all departments) by expanding to include the critical business and automation needs of individual departments – including current critical systems without future replacement funding strategies. The growth of electronic services, mobile computing, hardware and software virtualization and cloud computing (all of which the City is pursuing in current CIP projects or smaller tactical projects) will also be a key theme of the new Plan.

Table 9-1: 2015-2020 Funding Summary By Department

## INFORMATION TECHNOLOGY

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
End User Device Replacement	\$ -	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 458,000	\$ 2,748,000	\$ 458,000	\$ -
Network Hardware Replacement	1,301,331	160,671	148,041	113,893	116,503	612,223	648,000	1,799,331	150,000	-
Security Administration	77,450	11,500	54,000	-	-	6,700	6,700	78,900	5,250	-
Server Admin Hardware Replacement	767,000	615,000	10,500	-	81,000	35,000	740,000	1,481,500	25,500	-
VoIP Telephone System Replacement	633,000	-	133,000	-	-	500,000	-	633,000	-	-
Data Backup and Disaster Recovery	129,000	-	-	-	44,000	85,000	-	129,000	-	-
<b>Subtotal</b>	<b>\$ 2,907,781</b>	<b>\$ 1,245,171</b>	<b>\$ 803,541</b>	<b>\$ 571,893</b>	<b>\$ 699,503</b>	<b>\$ 1,696,923</b>	<b>\$ 1,852,700</b>	<b>\$ 6,869,731</b>	<b>\$ 638,750</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 2,907,781</b>	<b>\$ 1,245,171</b>	<b>\$ 803,541</b>	<b>\$ 571,893</b>	<b>\$ 699,503</b>	<b>\$ 1,696,923</b>	<b>\$ 1,852,700</b>	<b>\$ 6,869,731</b>	<b>\$ 638,750</b>	<b>\$ -</b>

[This page is intentionally blank.]



**Project Name:** Data Backup and Disaster Recovery

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** Information Technology  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** System-wide  
**BVCPArea:** System-wide  
**Map Number:**  
**CEAP Status:**

**Project Description**

The project reflects the hardware, software and support needed to ensure reliable high speed backup of files, databases and application stored on the city's enterprise servers and data storage sub-systems. Note that these systems are required not only for disaster preparedness and recovery purposes, but to meet legal records retention requirements.

No major changes are planned to this system until late 2018 / early 2019.

Please note there is also another project listed for this system which is included in the non-funded project category.

**Relationship to Guiding Principles**

- Consistent with Master Plans
  - Achieves Community Sustainability goals
  - Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
  - Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
  - Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

Planned changes to the system are subjected to the IT Change Control review process.

**Relationship with Other Departments** **Change from Past CIP**

City-wide Enterprise service supporting all city departments

Estimated Total Cost		Unfunded Amount	
Project Cost		Unfunded Amount	
Planning		Project Cost Total	\$129,000
Acquisition		Funding Total	(\$129,000)
Construction			
<b>Total Project Cost</b>	<b>\$129,000</b>	<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Computer Replacement Fund	\$0	\$0	\$0	\$0	\$44,000	\$85,000	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$44,000</b>	<b>\$85,000</b>	<b>\$0</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$27,000 **Funding Source:** Computer Replacement Fund

**Additional Annual O&M Description:**

Operating costs for this system are reflective of the annual software maintenance fees for the backup software.



**Project Name:** End User Device Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Information Technology	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Funding for replacement of PC's, laptops, workgroup printers and scanners for the city's document management system system which are all heavily utilized by staff to meet the daily operational requirements of the city. Project includes replacement of end-user hardware on a regular basis at the end of it's useful life, independent of equipment failure or substandard performance. Pad devices are currently not included in our user device replacement cycle.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input type="checkbox"/> Consistent with Master Plans   | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| Achieves Community Sustainability goals   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit                                       |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | Fund includes sufficient reserves   |
| <input checked="" type="checkbox"/> Maintains and enhances city's business systems            | Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |   |

**Public Process Status, Issues**

**Relationship with Other Departments**

City-wide Enterprise service supporting all city departments

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning  
Acquisition  
Construction

**Total Project Cost** \$3,206,000

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total  
Funding Total (\$3,206,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Computer Replacement Fund	\$458,000	\$458,000	\$458,000	\$458,000	\$458,000	\$458,000	\$458,000
<b>Total Funding Plan</b>	<b>\$3,206,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** n/a

**Additional Annual O&M Description:**

Equipment is covered by manufactures warranty throughout lifecycle. No additional operating costs are incurred.



**Project Name:** Network Hardware Replacement

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** Information Technology  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** System-wide  
**BVCP Area:** System-wide  
**Map Number:**  
**CEAP Status:**

**Project Description**

This is an ongoing project and includes the hardware and related software used to provide and support a reliable and secure high-speed data and voice communications infrastructure to connect City computing devices to internal data repositories and computing services, while supporting connectivity to the Internet and other external data resources and services. Project involves maintenance and end of life equipment replacement.

Most elements of the network infrastructure have a useful life of six years. This is the maximum lifecycle recommended by the equipment vendor and industry best practices. From 2014 – 2018, approximately 10% of the city’s network hardware will be replaced as part of on-going system maintenance plans. In 2019, nearly 50% of the system is due for replacement resulting in significant changes to the city’s overall network infrastructure at that time.

Please note there is also an unfunded element to this system of \$118,000 with corresponding annual O&M of \$14,500, which will be reflected in the unfunded items section of the document.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city’s business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

Planned changes to the system are subjected to the IT Change Control review process.

**Relationship with Other Departments**

City-wide Enterprise service supporting all city departments.

**Change from Past CIP**

**Estimated Total Cost**

Project Cost		Unfunded Amount	
Planning		Project Cost Total	\$1,301,331
Acquisition		Funding Total	(\$1,949,331)
Construction			
<b>Total Project Cost</b>	<b>\$1,301,331</b>	<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Computer Replacement Fund	\$150,000	\$160,671	\$148,041	\$113,893	\$116,503	\$612,223	\$648,000
<b>Total Funding Plan</b>	<b>\$1,949,331</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Computer Replacement Fund

**Additional Annual O&M Description:**

O&M costs related to funded portion of this project, are covered in the current budget.



**Project Name:** Security Administration

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** Information Technology  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** System-wide  
**BVCPArea:** System-wide  
**Map Number:**  
**CEAP Status:**

**Project Description**

This is an ongoing program. Equipment used to provide and support network devices and software needed to ensure the city's network, server and computing infrastructure are secured against external Cyber-threats such as viruses, malware and hackers in compliance with FBI, CIP (Critical Infrastructure Protection) and PCI (Purchasing Card Industry) security standards. Project includes maintenance and end-of life-equipment replacement.

Minor replacements are planned during years 2014 and 2015, with a majority of the systems due for replacement during 2016. Planning of future enhancements will be included in the upcoming IT Strategic Plan redevelopment process.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems  
Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit  
Fund includes sufficient reserves  
Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

City-wide Enterprise service supporting all city departments.

**Relationship with Other Departments**

This is a new capital maintenance project to the CIP this year.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning  
 Acquisition  
 Construction

**Total Project Cost** **\$77,450**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total \$77,450  
 Funding Total (\$84,150)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Computer Replacement Fund	\$5,250	\$11,500	\$54,000	\$0	\$0	\$6,700	\$6,700
<b>Total Funding Plan</b>	<b>\$84,150</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Computer Replacement Fund

**Additional Annual O&M Description:**

Operating costs, including the maintenance and support contracts on the firewall hardware, are covered in the current budget.



**Project Name:** Server Admin Hardware Replacement

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** Information Technology  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** System-wide  
**BVCPArea:** System-wide  
**Map Number:**  
**CEAP Status:**

**Project Description**

This is an ongoing program. Hardware and related software necessary to provide and support the computing infrastructure that delivers critical services, including enterprise software applications (e.g. financial, payroll, permitting and licensing, electronic mail, etc.), critical departmental applications (e.g. police and fire records, court case management, recreation registration, etc.) enterprise database and data storage resources, internal/external web systems, and electronic document management repositories. Project includes maintenance and end of life equipment replacement.

**Relationship to Guiding Principles**

- Consistent with Master Plans
  - Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
  - Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

City-wide Enterprise service supporting all city departments.

**Relationship with Other Departments**

This is a new capital maintenance project to the CIP this year.

**Change from Past CIP**

**Estimated Total Cost**

Project Cost	
Planning	
Acquisition	
Construction	
<b>Total Project Cost</b>	<b>\$767,000</b>

**Unfunded Amount**

Unfunded Amount	
Project Cost Total	\$767,000
Funding Total	(\$1,507,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Computer Replacement Fund	\$25,500	\$615,000	\$10,500	\$0	\$81,000	\$35,000	\$740,000
<b>Total Funding Plan</b>	<b>\$1,507,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** **Funding Source:** Computer Replacement Fund

**Additional Annual O&M Description:**

Operating costs, including the support and maintenance payments on the server operating systems and other necessary licenses are covered in the current budget.



**Project Name:** VoIP Telephone System Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Information Technology	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This is an ongoing project and includes the end user hardware, server infrastructure and related software used to provide and support a reliable and secure phone system.

Project involves maintenance and end of life equipment replacement.

Most elements of the phone system have a useful life of six to nine years. This is the maximum lifecycle recommended by the equipment vendor and industry best practices. The system is scheduled for some hardware upgrades in 2016, and a major system replacement in 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li><input type="checkbox"/> Consistent with Master Plans</li> <li><input type="checkbox"/> Achieves Community Sustainability goals</li> <li><input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance</li> <li><input checked="" type="checkbox"/> Maintains and enhances city's business systems</li> <li><input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets</li> <li><input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> <li>Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

Planned changes to the system are subjected to the IT Change Control review process.

**Relationship with Other Departments**

City-wide Enterprise service supporting all city departments

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$633,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total \$633,000
- Funding Total (\$633,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Telecommunications Fund	\$0	\$0	\$133,000	\$0	\$0	\$500,000	\$0
<b>Total Funding Plan</b>	<span style="border: 1px solid black; padding: 2px;">\$633,000</span>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Telecommunications Fund

**Additional Annual O&M Description:**

O&M costs related to funded portion of this projec. are covered in the current budget.

[This page is intentionally blank.]

# OPEN SPACE AND MOUNTAIN PARKS

2015–2020 Capital Improvement Program

## Funding Overview

Open Space and Mountain Parks' CIP projects are funded from two sources, the Open Space Fund and the Lottery Fund:

- Ninety-two percent of Open Space Fund revenues derive from dedicated sales and use tax collections. There are three sales taxes that support the Open Space Fund: the 0.40% sales tax has no sunset; the 0.33% sales tax which will be reduced to 0.22% on January 1, 2019; and the 0.15% sales tax which expires December 31, 2019.
- Open Space and Mountain Parks also expends Lottery Funds on CIP projects. The Lottery Fund derives its revenue from the Colorado Conservation Trust Fund. Lottery Funds are not restricted to OSMP.

## 2013 Flood Impact

The September 2013 storm impacted Open Space & Mountain Parks severely. Immediately after the flood in 2013, resources were shifted from pre flood work plan projects to flood recovery. This shift in resources continues in 2014 and is reflected in the Open Space & Mountain Parks Department CIP for 2015–2020. Flood recovery project efforts are being aligned with plan (Visitor Master Plan and Grassland Plan) implementation where possible to achieve two goals, i.e., flood recovery and plan implementation. The achievement of these two goals simultaneously maximizes the return on investment of resources. Because flood recovery became the top priority, projects of lesser value have been postponed to later years.

Almost all of the trail work planned for 2015 will be repairing trails that were damaged in the 2013 flood such as South Boulder Creek West, Lower Big Bluestem, South Mesa, Shanahan Ridge, Bear Canyon and Royal Arch. The bulk of this work will be done from April through November.

## Accomplishments and Highlights

Projects to be Completed in 2014:

### Land and Visitor Services

- Flood Recovery: Much of the Department's work in 2014 was related to flood recovery and thus not listed as a part of the CIP. Specific projects included: 1) Rebuilding Chapman Drive, East Boulder and White Rocks Trail, Sanitas Valley Trail, and Gregory Canyon Trailhead Access, 2) Repairing Royal Arch Trail and South Boulder Creek Trail, and 3) Re-routing Green Mountain Lodge access trail. FEMA reimbursement is expected for each of the projects listed above
- Anemone Loop Trail: Constructed new trail on Anemone Hill and restored existing undesignated trails
- Rebuilt Chapman Drive: to repair rainfall damage
- Chautauqua Meadow: Rainfall damage repaired and implemented reroutes called for in the West Trail Study Area Plan



- East Boulder and White Rocks Trail: Repaired flood damage
- Green Mountain Lodge access trail: Rerouted access because of flood damage on old trail
- Royal Arch: Repaired trail damage caused by rainfall/flood and/or rerouted the trail
- Sanitas Valley Trail: Rebuilt to repair flood damage
- South Boulder Creek Trail at South Boulder Road: Repaired the trail and installed new pedestrian bridge that will better convey high water
- Wittemyer: Finished construction of a new trail on perimeter of Wittemyer and restored existing undesignated trails
- Designed work on several trails: Seal Rock, Ranger, Saddle Rock, Green Mountain West Ridge, and Four Pines – in preparation for field work in 2015
- Gregory Canyon Trailhead Access: Removed and replaced damaged asphalt from access road
- Flagstaff Summit: Designed work and developed and submitted grant applications for funding
- Completed construction of the Highway 93 underpass: at the Community Ditch Trail.

### Ecological Systems

- Forest Ecosystem Management Plan implementation: A number of forest thinning projects on OSMP land to restore forest health and help reduce the risk of wildfire on the western city boundary. Acquired \$15,000 grant from the Colorado State Forest Service
- Integrated Pest Management: Managed weeds to comply with state weed laws, restored native plant communities, maintained biotic diversity on OSMP lands and controlled weed infestations from the 2013 flood
- Restoration Legacy Program: Designed and implemented projects to restore degraded land and improve ecosystem functioning on OSMP land
- Wildlife and fish habitat improvement projects: habitat fencing, amphibian and prairie dog management, and stream and pond habitat enhancement
- Floodplain and riparian restoration: of South Boulder Creek
- Riparian restoration of confluence: of South Boulder Creek and Boulder Creek from impacts of 2013 flood
- The September 2013 flood impacted the creeks through this area by eroding and depositing sediment in the channel. This work will entail restoring stream bank and streambed structure, creating aquatic habitat and planting riparian trees and shrubs to create a sustainable riparian area.

### Cultural Resources

- Weiser house: upgrades and repairs, including electrical and HVAC upgrades and new shingles on roof. The Weiser House is on the National Register of Historic Places
- Hunter-Kolb Farmhouse Rehabilitation: A historic structures assessment was completed and major repairs made to the house. The agriculture group plans to lease the house to a farming family
- Farmstead repairs/maintenance: Repairs and maintenance to the Lewis Farm and several other barns throughout the OSMP system were completed, including foundation repair, wood siding repair, glazing replacement, roof replacement, clean-up, masonry repair and painting.

Projects Expected for Completion in 2015:

### Land and Visitor Services

- Continued Flood Repair

### Ecological Systems

- South Boulder Creek Bridge downstream of South Boulder Road – Construct a pedestrian bridge to better manage neighborhood access to the South Boulder Creek Trail and reduce impacts to the riparian area from undesignated trail use
- Repair of South Boulder Creek–Boulder Creek confluence area impacted by the September 2013



flood.

### Cultural Resources

- Hartnagle Farmstead Rehabilitation – Historic Hartnagle Farmstead was begun in the late 1880s. The House and outbuildings are in disrepair, but because it is an ideal location and set-up for a small organic farm, OSMP plans to renovate the buildings and make them available for the agriculture program
- Foothills Nature Center rehabilitation – The FNC is in a building the city of Boulder considers historic and worthy of preservation. The house will need repairs and upgrades.

Projects Starting in 2015, but Not Completed:

### Land and Visitor Services

- None

### Ecological Systems

- Restoration of South Boulder Creek riparian area and floodplain and of South Boulder Creek–Boulder Creek confluence area
- Native grassland restoration projects continue on selected parts of the OSMP system
- Monitoring projects are ongoing throughout the OSMP system to inform future management decisions.

### Cultural Resources

- Continuation of farmstead repair and rehabilitation, particularly historic barns on the system.

Highlights of 2016–2020 Projects:

### Land and Visitor Services

- Completion of rainfall and flood damage repairs to all trails and trailheads
- Completion of trail and trailhead projects called for in the West TSA Plan
- Completion of the North TSA Plan
- Implementation of the trail and trailhead projects called for in the North TSA Plan
- Completion of the East TSA Plan
- Completion of the South Boulder Creek in stream flow improvements in conjunction with the Gross Reservoir expansion
- Visitor Master Plan implementation and update.



Hartnagle Barn before repairs.

### Ecological Systems

- Forest Ecosystem Management Plan implementation and update
- Grassland Ecosystem Management Plan implementation and update
- Integrated Pest Management implementation
- Wildlife and fish habitat improvement projects
- Restoration Legacy Program implementation
- Installation of additional sediment containment basins on Flagstaff Drive.

### Cultural Resources

- Continuation of farmstead repair and rehabilitation, particularly the historic barns on the system
- Explore opportunities for interpretative signs for cultural resources in system.

## Relationship to Guiding Principles and Prioritization



### CIP Guiding Principles:

All proposed projects in the 2015 - 2020 CIP are consistent with applicable guiding principles. Sufficient funds in the operating budget have been identified for ongoing maintenance and operations. Most projects in the proposed CIP go towards maintaining and improving existing assets. These projects are called out in the Visitor Master Plan, and/or the subsequent TSA Plans, the Forest Ecosystem Management Plan and the Grassland Ecosystem Management Plan. The projects add to the quality of life and visual appeal of the community that help to attract employment opportunities and sustain job retention in the Boulder Valley. Many of these projects improve the sustainability of our lands and the resources they support.

Cultural resource projects help to fulfill the city of Boulder's long term sustainability goals by upholding Boulder's Historic Preservation Ordinance (#4000 adopted 1974) which directs the city to "promote the public health, safety and welfare by protecting, enhancing, and perpetuating buildings, sites, and areas of the city reminiscent of past eras, events, and persons important in local, state, or national history or providing significant examples of architectural styles of the past... to develop and maintain appropriate settings and environments for such buildings, sites, and areas to enhance property values, stabilize neighborhoods, promote tourist trade and interest, and foster knowledge of the city's living heritage."

### Prioritization:

The over-riding factor in determining the priority of projects is the need to complete recovery from damage caused by the September, 2013 rainfall and floods and the direction given by City Council to implement the West TSA Plan as quickly as possible. Priority among the many flood related projects goes to infrastructure that suffered the most damage and experiences the highest use. Within the list of projects called for in the West TSA Plan, priority was given to projects that will have the most positive effect on resource protection and land sustainability within the system. Additionally, some projects were chosen due to their proximity to other large projects that are at the top of the priority list. The Open Space Board of Trustees directed that some projects be prioritized based on their smaller size and that neighborhoods were particularly interested in seeing these projects completed.

In addition, management plans establish the priority for projects.

### Projects Not in Master Plans:

Establish an OSMP Facility Capital Replacement reserve to be used to fund major maintenance, upkeep and repair of facilities.

### New Projects

- Establish and begin funding an OSMP Facility Capital Replacement reserve.
- Farmstead repairs throughout system.
- Agriculture Facilities Projects.
- Bear Canyon Road Flood Damage Repair and Mitigation.
- Boulder Creek and South Boulder Creek Confluence Area Riparian Restoration Flood Repair.
- Cultural Resource/Facility Restoration.
- Flagstaff Summit Improvements.
- Hartnagle House Restoration.
- South Mesa Road and Shanahan Ridge Trail Flood Repair.
- Restoration of Riparian and Wetland Habitat - Gregory Canyon Creek and Fancher Ponds Flood Repair.



- Royal Arch Trail Flood Repair.
- South Boulder Creek at Greenbelt Meadows Bridge.
- South Boulder Creek West Trail Flood Repair.
- Trail Repair (LF) – Lower Big Bluestem Trail Flood Repair.
- Viele House Foundation Repair.

### **Operation and Maintenance Impacts**

As new and rerouted trails are built along with new trailheads, the need for operations and maintenance funds will increase. The impact is slight in the near term and, in fact, may decrease since older infrastructure will be replaced with new. However, as trails and trailheads age they will need maintenance just as any aging facility does. Maintenance costs on the farmsteads will be needed to keep the buildings in usable condition.

It is anticipated additional funding will be required for operation and maintenance as the OSMP infrastructure expands. Current projections indicate that existing revenue sources for OSMP will be adequate to provide needed operation and maintenance funding.

### **Deferred Eliminated, or Changed Projects**

South Mesa trailhead interpretive sign project is unfunded. This project will be funded in 2014 should unexpended funds become available. Other deferred projects will be funded as future work plans are developed and funding is available.

### **Unfunded Projects and Emerging Needs**

Emerging needs occur frequently in cultural resources as structures' exposure to the elements takes a daily toll. It is difficult to predict repairs that will be necessary on an emergency basis, but with historic structures, there will always be something in need of repair. Also, the Department remains at risk for wildfire. A wildfire has the potential of pulling funds away from planned CIP projects either by the amount of money needed to fight the fire and/or by creating higher priority projects.

### **Board Action**

At its June 11, 2014 meeting, The Open Space Board of Trustees unanimously passed a motion approving the 2015 OSMP CIP and recommending approval of the same by the Planning Board and City Council.

the continuing drought. While impact mitigation of wildfires is not a CIP project, a wildfire has the potential to pull funds away from planned CIP projects either by the amount of money needed to fight the fire and/or by creating higher priority projects.

### **Advisory Board Action**

On July 11, 2013 the Open Space Board of Trustees voted (5-0) to "Approve, and recommend that the Planning Board approve an appropriation of \$7,010,000 in 2014 from the Open Space Fund CIP as outlined in this memorandum and related attachments; and recommend that \$343,000 be appropriated from the city's Lottery Fund CIP in 2014."

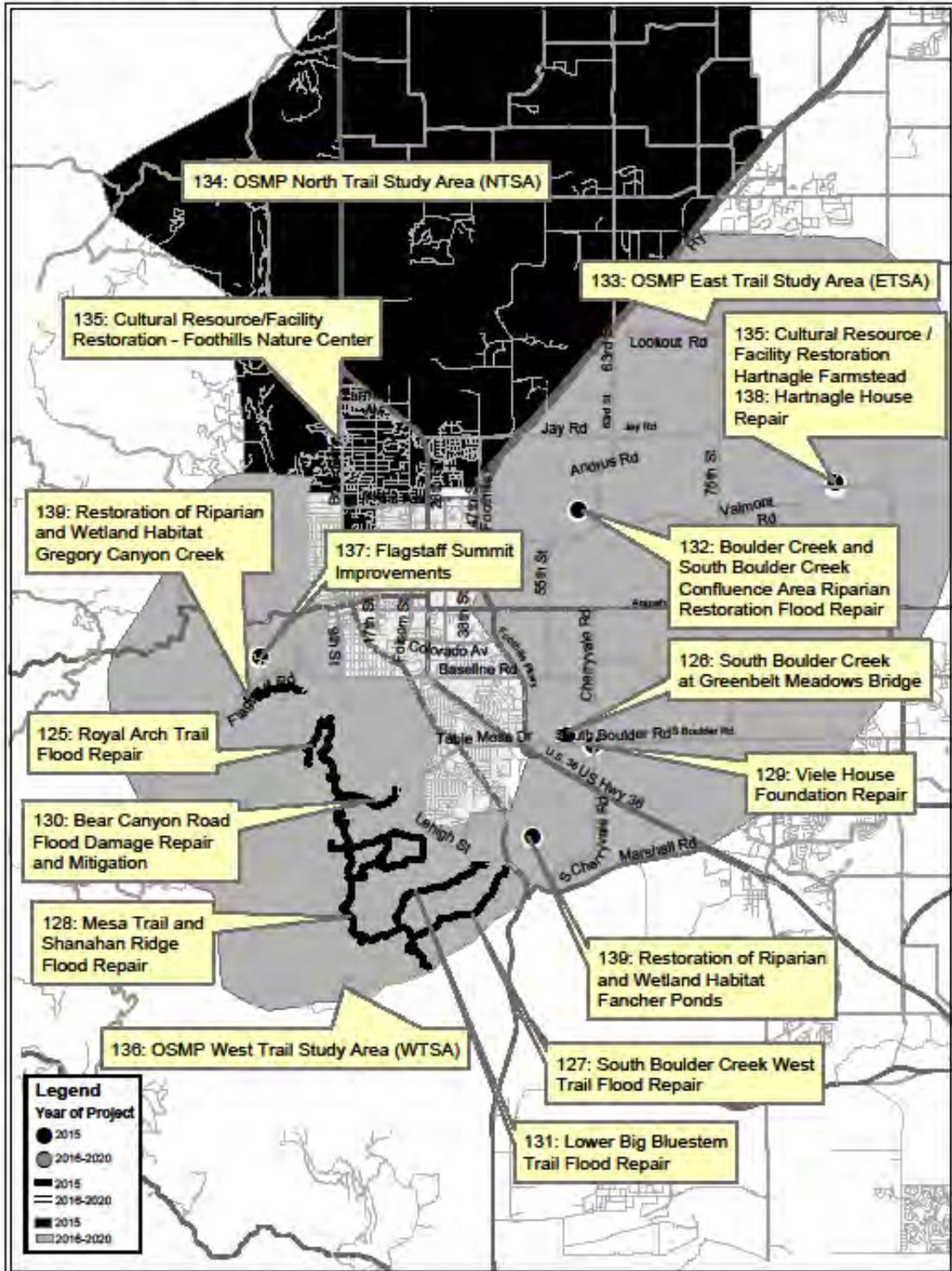
Table 10-1: 2015-2020 Funding Summary By Department

## OPEN SPACE AND MOUNTAIN PARKS

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Bear Canyon Road Flood Damage Repair and Mitigation	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -
Flagstaff Summit Improvements	250,000	250,000	-	-	-	-	-	250,000	-	-
OSMP North Trail Study Area (NTSA)	-	50,000	100,000	200,000	100,000	50,000	50,000	550,000	100,000	(650,000)
Restoration of Riparian and Wetland Habitat - Gregory Canyon Creek and Fancier Ponds Flood Repair	59,000	59,000	-	-	-	-	-	59,000	-	-
OSMP West Trail Study Area (WTSA)	-	-	550,000	450,000	600,000	50,000	50,000	1,700,000	1,119,486	(2,819,486)
Visitor Infrastructure - System Wide	-	-	250,000	200,000	200,000	500,000	500,000	1,650,000	350,000	-
OSMP East Trail Study Area (ETSA)	300,000	-	-	50,000	50,000	200,000	200,000	500,000	-	(200,000)
<b>Subtotal</b>	<b>\$ 759,000</b>	<b>\$ 509,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 950,000</b>	<b>\$ 800,000</b>	<b>\$ 800,000</b>	<b>\$ 4,859,000</b>	<b>\$ 1,569,486</b>	<b>\$ (3,669,486)</b>
<b>Capital Maintenance</b>										
Agriculture Facilities Projects	\$ -	\$ 100,000	\$ 110,000	\$ 110,000	\$ 120,000	\$ 120,000	\$ 130,000	\$ 690,000	\$ -	\$ (690,000)
Boulder Creek and South Boulder Creek Confidence Area Restoration Flood Repair	150,000	150,000	-	-	-	-	-	150,000	-	-
Cultural Resource/Facility Restoration	60,000	60,000	-	-	-	-	-	60,000	-	-
Hartnagle House Restoration	65,000	65,000	-	-	-	-	-	65,000	-	-
Lower Big Bluestem Trail Flood Repair	205,300	205,300	-	-	-	-	-	205,300	-	-
Royal Arch Trail Flood Repair	150,000	150,000	-	-	-	-	-	150,000	-	-
South Boulder Creek West Trail Flood Repair	100,000	100,000	-	-	-	-	-	100,000	-	-
South Mesa Road and Shanahan Ridge Trail	544,700	544,700	-	-	-	-	-	544,700	-	-
Viele House Foundation Repair	80,000	80,000	-	-	-	-	-	80,000	-	-
OSMP - Historical Structures & Trails - Stabilization and Restoration	-	-	355,300	355,300	355,300	355,300	355,300	1,776,500	686,000	-
<b>Subtotal</b>	<b>\$ 1,355,000</b>	<b>\$ 1,455,000</b>	<b>\$ 465,300</b>	<b>\$ 465,300</b>	<b>\$ 475,300</b>	<b>\$ 475,300</b>	<b>\$ 485,300</b>	<b>\$ 3,821,500</b>	<b>\$ 686,000</b>	<b>\$ (690,000)</b>
<b>Land and Asset Acquisition</b>										
Mineral Rights Acquisition	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 600,000	\$ 100,000	\$ -
OSMP Real Estate Acquisition Program	-	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	32,400,000	5,400,000	-
Water Rights Acquisition	-	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	200,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 5,700,000</b>	<b>\$ 34,200,000</b>	<b>\$ 5,700,000</b>	<b>\$ -</b>					
<b>New Capital Project</b>										
South Boulder Creek at Greenbelt Meadows	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ -
South Boulder Creek Instream Flow	-	150,000	2,000,000	-	-	-	-	2,150,000	250,000	(2,400,000)
<b>Subtotal</b>	<b>\$ 150,000</b>	<b>\$ 300,000</b>	<b>\$ 2,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,300,000</b>	<b>\$ 250,000</b>	<b>\$ (2,400,000)</b>
<b>Total</b>	<b>\$ 2,264,000</b>	<b>\$ 7,964,000</b>	<b>\$ 9,065,300</b>	<b>\$ 7,065,300</b>	<b>\$ 7,125,300</b>	<b>\$ 6,975,300</b>	<b>\$ 6,985,300</b>	<b>\$ 45,180,500</b>	<b>\$ 8,205,486</b>	<b>\$ (6,759,486)</b>



## City of Boulder Capital Improvement Projects, 2015 - 2020 Open Space and Mountain Parks





**Project Name:** Agriculture Facilities Projects

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843016	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project is proposed for capital maintenance related to the repair, replacement, or renovation of the existing OSMP agricultural infrastructure. This infrastructure is important for OSMP to support local food production and local agricultural activities. Projects will include agricultural fence replacement and renovation, and water infrastructure replacement and renovation. Eight to 15 fencing or irrigation infrastructure renovation projects will be selected for implementation each year. These projects will be durable assets with a useful life of 20 – 50 years.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input type="checkbox"/> Consistent with Master Plans   | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | Fund includes sufficient reserves   |
| Maintains and enhances city's business systems  | Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |   |

**Public Process Status, Issues**

There is little public process required for these capital maintenance projects. The infrastructure is already present and these funds will generally be used to replace the existing infrastructure with facilities of similar design and function. Local ditch companies, water users and property neighbors will be consulted as necessary.

**Relationship with Other Departments**

The City of Boulder Utilities may be involved with some water infrastructure projects as they are often shareholders in the same local ditch companies as OSMP

**Change from Past CIP**

This is a new project in the OSMP CIP.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$690,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total (\$690,000)

**Total Unfunded** (\$690,000)

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$100,000	\$110,000	\$110,000	\$120,000	\$120,000	\$130,000
<b>Total Funding Plan</b>		<b>\$690,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

OSMP currently allocates \$25,000 per year for fencing and water infrastructure maintenance and repairs



**Project Name:** Bear Canyon Road Flood Damage Repair and Mitigation

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	730001	<b>Map Number:</b>	130
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Required as a result of flood related damages to the facility, the project objectives are to:

- Restore the facility to pre-flood, capacity and function in accordance with applicable standards and best management practices for low volume roads.
- Stabilize and enhance adjacent wetlands and wildlife habitat at the "Bear Canyon Pool" site.
- Reduce the potential for damage by future disaster events with cost effective mitigation measures.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance                             <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> </ul> </li> <li>___ Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets                             <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> <li>Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> </li> </ul> |
|---|---|

**Public Process Status, Issues**

Plans will be presented to OSBT for public and Board comment.

**Relationship with Other Departments**

Coordination with the following stakeholders is anticipated: US Government, NCA, Public Service Co of Colorado (Xcel Energy)

**Change from Past CIP**

This is a new project - a result of the 2013 Flood.

**Estimated Total Cost**

**Project Cost**

Planning	\$30,000
Acquisition	
Construction	\$120,000
<b>Total Project Cost</b>	<b>\$150,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$150,000
Funding Total	(\$150,000)

<b>Total Project Cost</b>	<b>\$150,000</b>	<b>Total Unfunded</b>	<b>\$0</b>
---------------------------	------------------	-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Lottery Fund	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$150,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$2,000 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

OSMP allocate funds each year for maintenance



**Project Name:** Boulder Creek and South Boulder Creek Confluence Area Riparian Restoration Flood Repair

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843006	<b>Map Number:</b>	132
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will restore riparian habitat in the Boulder Creek and South Boulder Creek confluence area. The September 2013 flood impacted the creeks through this area by eroding banks and depositing sediment in the channel. The work will entail restoring streambank and streambed structure, creating aquatic habitat and planting riparian trees and shrubs to create a sustainable riparian area.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans<br><input checked="" type="checkbox"/> Achieves Community Sustainability goals<br><input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance<br><input type="checkbox"/> Maintains and enhances city's business systems<br><input type="checkbox"/> Provides capacity and flexibility in long term planning | <input checked="" type="checkbox"/> Sustains or improves existing assets<br><input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit<br>Fund includes sufficient reserves<br><input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
|---|---|

**Public Process Status, Issues**

This project will be discussed at an OSBT public meeting in 2014

**Relationship with Other Departments**

None

**Change from Past CIP**

This is a new project - a result of the 2013 Flood.

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$30,000
Acquisition	
Construction	\$120,000
<b>Total Project Cost</b>	<b>\$150,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$150,000
Funding Total	(\$150,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$150,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

None



**Project Name:** Cultural Resource/Facility Restoration

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	740001	<b>Map Number:</b>	135
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Cultural resource and facility rehabilitation.

The Hartnagle farmstead outbuildings have been unused for many years and major rehabilitation is needed to make them usable for the farm tenants that OSMP plans to have leasing the property.

The Foothills Nature Center is in a small house that the City of Boulder believes to be historic. It needs major repair and upgrades to bring it up to good facility standards.

Hartnagle Outbuildings - Stabilization, repair and exterior improvements = \$30,000.00  
 Foothills Nature Center - Repair improvement = \$30,000.00

**Relationship to Guiding Principles**

- Consistent with Master Plans
  - Achieves Community Sustainability goals
  - Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
  - Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
  - Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The neighborhood adjacent to the Nature Center will need to be informed of the plans for the entire Foothills Nature Center campus.

**Relationship with Other Departments**

Depends upon the scope and location of the project. Viele/Van Vleet repair will go through LPAB and County HPAB since it is in both city and county; other projects will go through County for review depending upon scope of project.

**Change from Past CIP**

This is a new project in the OSMP CIP.

**Estimated Total Cost**

**Project Cost**

Planning	\$5,000
Acquisition	
Construction	\$55,000
<b>Total Project Cost</b>	<b>\$60,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$60,000
Funding Total	(\$60,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$60,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$2,000 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

OSMP allocates funds each year for maintenance.



**Project Name:** Flagstaff Summit Improvements

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVC/Area:</b>	Area III
<b>Project Number:</b>	843067	<b>Map Number:</b>	137
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Make the following improvements to facilities at the Summit of Flagstaff: Improve roads and traffic flow; increase amount and efficiency of parking; improve outhouses; improve access to buildings ensuring ADA access compliance, improve drainage.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>    Maintains and enhances city's business systems</li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>    Fund includes sufficient reserves</li> <li>    Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

Plans will be presented at an Open House and to OSBT for public and Board comment.

**Relationship with Other Departments**

Coordination with Boulder County will be required for traffic flow. Local and county historical organizations will be involved in the planning process.

**Change from Past CIP**

This is a new project in the OSMP CIP.

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$50,000
Acquisition	
Construction	\$200,000
<b>Total Project Cost</b>	<b>\$250,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$250,000
Funding Total	(\$250,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$250,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$250,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$4,000    **Funding Source:** Open Space funds and a grant to be applied for.

**Additional Annual O&M Description:**

OSMP allocates funds each year for maintenance.



**Project Name:** Hartnagle House Restoration

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	740002	<b>Map Number:</b>	138
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Hartnagle House was built in the early 1800s and was part of a homestead begun by early Boulder pioneers. It has been vacant for many years and will need major rehabilitation before it can be used as a residence for farmers who will use the outbuildings for their organic farm business.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans                             <ul style="list-style-type: none"> <li>Achieves Community Sustainability goals</li> <li>Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets                             <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li><input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

NA

**Relationship with Other Departments**

Any repairs to the Hartnagle Homestead which needs a building permit will go through County HPAB.

**Change from Past CIP**

This is a new project in the OSMP CIP.

**Estimated Total Cost**

**Project Cost**

Planning	
Acquisition	
Construction	\$65,000
<b>Total Project Cost</b>	<b>\$65,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$65,000
Funding Total	(\$65,000)

<b>Total Project Cost</b>	<b>\$65,000</b>	<b>Total Unfunded</b>	<b>\$0</b>
---------------------------	-----------------	-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$65,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$65,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$2,000 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

OSMP Allocates funds each year for maintenance,



**Project Name:** Lower Big Bluestem Trail Flood Repair

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	730002	<b>Map Number:</b>	131
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Repair flood damage to Lower Big Bluestem trail.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans</li> <li><input checked="" type="checkbox"/> Achieves Community Sustainability goals</li> <li><input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> <li>Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets</li> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> <li>Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

Since this is a maintenance project, no public process is necessary.

**Relationship with Other Departments**

No other city department has an interest in this road. OSMP will be coordinating with Xcel Energy whose maintenance staff use the road to access some of their facilities.

**Change from Past CIP**

This is a new project - a result of the 2013 Flood.

**Estimated Total Cost**

**Project Cost**

Planning	\$20,000
Acquisition	
Construction	\$185,300

**Total Project Cost** \$205,300

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$205,300
Funding Total	(\$205,300)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Lottery Fund	\$0	\$205,300	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$205,300</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Open Space Funds

**Additional Annual O&M Description:**

OSMP allocates funds each year for maintenance



**Project Name:** Mineral Rights Acquisition

**Project at a Glance**

<b>Project Type:</b>	Land and Asset Acquisition	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	935000	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This on-going program provides funding to purchase underlying mineral interests from private owners or others as they become available on the real estate market. Many of these interests in minerals, gas, oil and aggregates were severed from the lands before properties were purchased by the city and could cause future management issues. Funds also provide for research, mapping and analyzing potential acquisitions. This project is for an ongoing funding program. In 2015, \$100,000 will be allocated for acquisition of mineral rights. The Mineral Rights Acquisition program provides funding to purchase underlying minerals as they become available. No mineral rights have been acquired in recent years that have been purchased separate from land purchases because of unavailability on the market. Funds not expended in one year are carried over to the next. In 2014, \$361,184 of unexpended mineral rights acquisition funds were carried over from 2013 to 2014. In addition, should water rights or real property become available to purchase and funds allocated for that purpose are insufficient, mineral rights acquisition funds may be utilized to make up the deficiency. The definition of a CIP project includes "the purchase of the physical assets of the community". By purchasing the rights to the mineral, the city is purchasing a physical asset.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |   |

**Public Process Status, Issues**

Annual funding is approved by both the Open Space Board of Trustees and City Council.

**Relationship with Other Departments**

The Open Space & Mountain Parks department works cooperatively with other city departments, primarily Parks and Recreation, Utilities and Transportation. The department also works with and promotes inter-governmental cooperation with national, state and local conservation and Open Space programs, such as Boulder County Open Space, Jefferson County Open Space, Louisville, Lafayette and Longmont, Colorado Open Space Alliance (COSA), GOCO, Colorado Department of Natural Resources, CDOW and others.

**Change from Past CIP**

No Changes.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$0

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total (\$700,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
<b>Total Funding Plan</b>	<b>\$700,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

Included in annual appropriations for operations



**Project Name:** OSMP - Historical Structures & Trails - Stabilization & Restoration

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	730000	<b>Map Number:</b>	0
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	

**Project Description**

Many historic structures and visitor infrastructure features on OSMP are in need of stabilization, reclamation, rehabilitation or replacement. Focus for 2014 will be on structures in the West Trail Study Area (WTSA). This will be the second year of a planned seven year implementation period for projects identified in the WTSA Plan. Historic site assessments and related stabilization, reclamation and rehabilitation will be conducted on historic structures on Flagstaff Summit and other areas in the WTSA area. In addition, major maintenance and restoration projects will be completed on the historic trails system that was largely constructed by the Civilian Conservation Corps (CCC) or by citizen use. Additionally, renovation of various trail heads will be undertaken. Related efforts will continue across this landscape over the planning period. This project is for an ongoing funding program. Projects worked on in 2013 included interpretive signs to highlight area's history per the West Trail Study Area Plan including the South Mesa Trailhead and Flagstaff cultural districts. Projects anticipated for 2015 and beyond include Viele House basement repair/mitigation; Hartnagle House repair/stabilization; interpretive signs for the Flagstaff Historic Cultural District; and repair/stabilize historic/cultural structures and sites as necessary. For 2015, individual project sheets have been prepared for each project.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li style="padding-left: 20px;">Maintains and enhances city's business systems</li> <li>✓ Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li style="padding-left: 20px;">Fund includes sufficient reserves</li> <li style="padding-left: 20px;">Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

Projects are approved by the OSBT through the public process. Projects whose scope requires a CEAP are also approved by City Council under the CEAP call-up provision. In addition, the public has input via email and public meetings in the trail study area planning process.

**Relationship with Other Departments**

Where appropriate OSMP coordinates with City of Boulder Parks and Recreation, County transportation and CDOT concerning access issues in this area. In addition, for this project OSMP will coordinate with Boulder County Planning, city and county historic preservation staff.

**Change from Past CIP**

No Changes. Two previous CIP's (Bear Canyon & L. Big Blue) fund from Lottery.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost**  

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total

(\$2,462,500)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Lottery Fund	\$686,000	\$0	\$355,300	\$355,300	\$355,300	\$355,300	\$355,300
<b>Total Funding Plan</b>	<b>\$2,462,500</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$2,000 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

Open Space & Mountain Parks allocates funds from its operating budget each year for maintenance.



**Project Name:** OSMP East Trail Study Area (ETSA)

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCP Area:</b>	Area III
<b>Project Number:</b>	843080	<b>Map Number:</b>	133
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The ETSA contains approximately 10,900 acres and includes the eastern quadrant of the Boulder Valley and extends from SH 119 / Diagonal south to SH 36. It includes the Dry Creek, Whiterocks and tallgrass Prairie East sub-areas. The Plan will delineate a small number of new trails, designation and major maintenance for some undesignated trails and closure and reclamation of other undesignated trails, trail head improvements and upgraded and/or additional regulatory, way-finding and interpretive signs. The Plan will be implemented starting in 2019 with full implementation taking up to ten years. In 2014, \$0 will be spent but full implementation may cost as much as \$500,000.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>    Maintains and enhances city's business systems</li> <li>✓ Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>    Fund includes sufficient reserves</li> <li>    Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

It has not been determined, at this time, how the ETSA Plan will be developed. In any case, there will be ample opportunity for the public to give input via email and public meetings.

**Relationship with Other Departments**

Where appropriate OSMP coordinates with City of Boulder Parks and Recreation, Boulder County Transportation and CDOT concerning access issues to this area.

**Change from Past CIP**

No Changes.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$300,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total \$300,000
- Funding Total (\$500,000)

**Total Unfunded** (\$200,000)

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$0	\$0	\$50,000	\$50,000	\$200,000	\$200,000
<b>Total Funding Plan</b>	<span style="border: 1px solid black; padding: 2px;">\$500,000</span>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$2,000 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

Monitor, maintain, rehabilitate trails when needed



**Project Name:** OSMP North Trail Study Area (NTSA)

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843070	<b>Map Number:</b>	134
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The NTSA encompasses approximately 9,500 acres and includes the North Foothills area north of Lee Hill Road and the Boulder Valley Ranch area extending east to SH 119 / Diagonal. The Plan will delineate a small number of new trails, designation and major maintenance for some undesignated trails and closure and reclamation of other undesignated trails, trail head improvements and upgraded and/or additional regulatory, way-finding and interpretive signs. The Plan will be completed in 2015 with implementation beginning in 2016 taking up to ten years to complete.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>    Maintains and enhances city's business systems</li> <li>✓ Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>    Fund includes sufficient reserves</li> <li>    Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

It has not been determined, at this time, how the NTSA Plan will be developed. In any case, there will be ample opportunity for the public to give input via email and public meetings.

**Relationship with Other Departments**

Where appropriate OSMP coordinates with City of Boulder Parks and Recreation, Boulder County Transportation and CDOT concerning access issues to this area.

**Change from Past CIP**

No Changes.

**Estimated Total Cost**

**Project Cost**

Planning  
Acquisition  
Construction

**Total Project Cost**  

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total  
Funding Total (\$650,000)

**Total Unfunded**   **(\$650,000)**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$100,000	\$50,000	\$100,000	\$200,000	\$100,000	\$50,000	\$50,000
<b>Total Funding Plan</b>	<b>\$650,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$2,000 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

Monitor, maintain, rehabilitate trails when needed

# Open Space and Mountain Parks



**Project Name:** OSMP Real Estate Acquisition Program

## Project at a Glance

<b>Project Type:</b>	Land and Asset Acquisition	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	720000	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

## Project Description

This project is the acquisition of additional acres of open space, subject to available funding, within the Open Space and Mountain parks acquisition plan area as approved by the OSBT and City Council. Funding is provided from the projected restricted Open Space sales tax revenue. The project includes funding for the acquisitions, surveys, appraisals, professional fees and other related acquisition and immediate management needs. This project is for an ongoing funded program. In 2015, \$5,400,000 is allocated to acquisition of real property. During 2014, the Berman Brothers and Dagle properties were purchased. These acquisitions met the following open space goals: preservation of natural areas, water resources and land for passive recreation; utilization of land to prevent encroachment on floodplains; and preservation of land for its contribution to the quality of life of the community. Management costs are budgeted in the operating budget of OSMP.

## Relationship to Guiding Principles

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans</li> <li><input checked="" type="checkbox"/> Achieves Community Sustainability goals</li> <li><input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance                             <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Sustains or improves existing assets                             <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li><input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|--|

## Public Process Status, Issues

All acquisitions are presented to the Open Space Board of Trustees and require approval by City Council.

## Relationship with Other Departments

The Open Space & Mountain Parks department works cooperatively with other City of Boulder Departments, primarily Parks and Recreation, Greenways, Transportation, Utilities and Planning. The department also works with and promotes inter-governmental cooperation with national, state and local conservation and Open Space programs, such as Boulder County Open Space, Jefferson County Open Space, Louisville, Lafayette, Superior, Longmont, Colorado Open Space Alliance (COSA), GOCO, Colorado Dept of Natural Resources, CDOW and others including the Trust for Public Lands, The Conservation Fund and The Nature Conservancy.

## Change from Past CIP

No Changes.

## Estimated Total Cost

### Project Cost

Planning  
Acquisition  
Construction

**Total Project Cost** \$37,800,000

## Unfunded Amount

### Unfunded Amount

Project Cost Total  
Funding Total (\$37,800,000)

**Total Unfunded** \$0

## Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000	\$5,400,000
<b>Total Funding Plan</b>	<b>\$37,800,000</b>						

## Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Open Space Fund

### Additional Annual O&M Description:

OSMP maintenance costs are primarily related to visitation and visitor infrastructure. Acquisition of land does not necessarily increase operating costs at a significant level. Immediate needs are addressed with CIP acquisition funds. These needs are identified to Council at the time the acquisition is approved. Visitor infrastructure improvements are identified in the respective TSA plan. Funding for these improvements is allocated from OSMP's visitor infrastructure CIP. Operating costs are allocated from the OSMP operating budget. Neither the VI CIP allocation nor operating budget necessitate significant increases year to year.



**Project Name:** OSMP West Trail Study Area (WTSA)

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843060	<b>Map Number:</b>	136
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The WTSA encompasses approximately 11,300 acres and lies west of the city limits and extends from Eldorado Springs Drive north to Lee Hill Road. The Plan for this TSA has been adopted by City Council. The adopted plan lists over 100 projects including new trails, designation and major maintenance for some undesignated trails and closure and reclamation of other undesignated trails, trail head improvements and upgraded and/or additional regulatory, way-finding and interpretive signs and restoration of both areas and trails. The implementation of the plan is scheduled to be done over a 7 year period. It was started in 2012. In 2014, \$500,000 will be spent on over 10 trail and trailhead projects. Among the over ten individual tasks included in this project are: Redrocks Trail Improvements, Repair Amphitheater Trail, Rework Flagstaff Trail approaches to Flagstaff Drive, Redesign Fern Canyon, Shadow Canyon and Mesa junction and Reroute Long's Canyon. Funding is identified on individual projects sheets.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>    Maintains and enhances city's business systems</li> <li>✓ Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>    Fund includes sufficient reserves</li> <li>    Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

The WTSA Plan had a large amount of public input during its development by the Community Collaborative Group (CCG). In addition considerable public input was taken via email and public meetings that led to its adoption. In addition, each major trail project will include additional opportunities for public input on that particular project.

**Relationship with Other Departments**

Where appropriate OSMP coordinates with City Parks and Recreation, County transportation and CDOT concerning access issues to this area.

**Change from Past CIP**

Specific projects are being funded from Lottery allocations in 2015.

<b>Estimated Total Cost</b>	<b>Unfunded Amount</b>
<b>Project Cost</b>	<b>Unfunded Amount</b>
Planning	Project Cost Total
Acquisition	Funding Total
Construction	(\$2,819,486)
<b>Total Project Cost</b>	<b>Total Unfunded</b>
	<b>(\$2,819,486)</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$1,119,486	\$0	\$550,000	\$450,000	\$600,000	\$50,000	\$50,000
<b>Total Funding Plan</b>	<b>\$2,819,486</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$2,000    **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

Monitor, maintain, rehabilitate trails when needed



**Project Name:** Restoration of Riparian and Wetland Habitat – Gregory Canyon Creek and Fancher Ponds Flood Repair

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCP Area:</b>	Area III
<b>Project Number:</b>	843007	<b>Map Number:</b>	139
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will restore habitat for Northern Leopard Frogs and riparian habitat impacted by the September 2013 flood. Fancher Ponds will be improved to better support the conservation of a frog species whose populations are declining across its range. Gregory Canyon Creek was severely eroded during the flood and requires restoration to improve hydrologic and ecological functioning to the creek.

**Relationship to Guiding Principles**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | Fund includes sufficient reserves  |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |  |

**Public Process Status, Issues**

This project will be discussed at an OSBT public meeting in 2014.

**Relationship with Other Departments**

None

**Change from Past CIP**

This is a new project – a result of the 2013 Flood.

**Estimated Total Cost**

**Project Cost**

Planning	\$8,000
Acquisition	
Construction	\$51,000
<b>Total Project Cost</b>	<b>\$59,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$59,000
Funding Total	(\$59,000)

<b>Total Unfunded</b>	<b>\$0</b>
-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$59,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$59,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

None



**Project Name:** Royal Arch Trail Flood Repair

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843066	<b>Map Number:</b>	125
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Due to damage incurred during the September, 2013 rainfall event, at least three sections of this trail were either partially or completely washed away during the extreme rainfall event in September, 2013. Each of these sections will need considerable repair work or will need to have a rerouted trail established to go around the washed away section.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>    Maintains and enhances city's business systems</li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>    Maximizes efficiency and demonstrates positive cost/benefit</li> <li>    Fund includes sufficient reserves</li> <li>    Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

Plans will be presented to OSBT for public and Board comment. If the reroute option is pursued, a more extensive public process including public open houses will be followed. Climbing organizations (BCC FCC) and the US Fish and Wildlife agency will be invited for comment.

**Relationship with Other Departments**

None

**Change from Past CIP**

*This is a new project - a result of the 2013 Flood.*

**Estimated Total Cost**

**Project Cost**

Planning	\$10,000
Acquisition	
Construction	\$140,000

**Total Project Cost** \$150,000

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$150,000
Funding Total	(\$150,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$150,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$10,000    **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

OSMP allocates funds each year for maintenance



**Project Name:** South Boulder Creek at Greenbelt Meadows Bridge

### Project at a Glance

**Project Type:** New Capital Project  
**Department:** Open Space & Mountain Parks  
**Project Number:** 843008  
**CEAP Required:** No

**Subcommunity:** Area III  
**BVCP Area:** Area III  
**Map Number:** 126  
**CEAP Status:**

### Project Description

A pedestrian bridge will be built to better serve the Greenbelt Meadows neighborhood adjacent to South Boulder Creek. The bridge will cross South Boulder Creek and connect the South Boulder Creek Trail with the neighborhood. This will provide a much needed access location for the community, eliminate undesignated trails on the west side of the creek and reduce impacts from dogs and their guardians to the riparian area.

### Relationship to Guiding Principles

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

### Public Process Status, Issues

Outreach to the neighborhood and trail users in the area will occur via public meetings. The project will also be discussed at a public OSBT meeting.

### Relationship with Other Departments

City of Boulder Utilities will be involved with floodplain issues and Greenways trail issues.

### Change from Past CIP

This is a new project - a result of the 2013 Flood.

### Estimated Total Cost

#### Project Cost

Planning	\$40,000
Acquisition	\$75,000
Construction	\$35,000

**Total Project Cost** **\$150,000**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$150,000
Funding Total	(\$150,000)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$150,000</b>					

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Open Space Fund

#### Additional Annual O&M Description:

Bridge maintenance will occur through the OSMP facilities management program



**Project Name:** South Boulder Creek Instream Flow

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843005	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project implements an Intergovernmental Agreement (IGA) to establish and operate a mitigation plan to address aquatic resource impacts from an expansion of Gross Reservoir. Partners in the IGA include the City of Boulder, Denver Water and the City of Lafayette. The IGA creates a permanent 5,000 acre feet storage "environmental pool" to implement a year-round instream flow program for South Boulder Creek. In order to use the water in this "environmental pool" for instream flows, several ditch diversion structures need to be built on South Boulder Creek. These project components include the design and construction of diversion dam bypass structures to pass water down the creek and several stream gauges to administer instream flow waters. These structures are estimated to cost \$400,000 with \$150,000 set aside in 2013, \$100,000 in 2014 and \$150,000 in 2015. Denver Water is contributing approximately \$4 million and Lafayette is contributing approximately \$2.4 million toward the environmental pool. The project completion date is based on Denver Water's projection that it will begin construction of the expanded reservoir in 2016. This project is ongoing through 2016 at which point Gross reservoir is to be expanded and the City of Boulder's portion of the Gross Reservoir enlargement costs will be \$2,000,000. Total CIP project cost for this project is \$2,400,000.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- ✓ Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
- ✓ Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

This item was heard by Boulder City Council and included public participation on January 5, 2010. Boulder City Council had a second public hearing for this project on February 16, 2010 where it approved the IGA's initiating this project.

**Relationship with Other Departments**

Open Space and Mountain Parks is working closely with Public Works on this. Public Works plans to line Wittemeier Ponds as its contribution to the project. Public Works will also use Colorado Big Thompson (CBT) units it has to help fill the environmental pool. Other partners for this project include Denver Water and the City of Lafayette.

**Change from Past CIP**

No Changes.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$2,400,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total (\$2,400,000)

**Total Unfunded** (\$2,400,000)

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$250,000	\$150,000	\$2,000,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<span style="background-color: #d9e1f2; padding: 2px;">\$2,400,000</span>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**



**Project Name:** South Boulder Creek West Trail Flood Repair

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843065	<b>Map Number:</b>	127
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

This trail was severely eroded in the September, 2013 rainfall event. While the trail is open to the public, it is so badly damaged that most users are not staying on the trail and are creating undesignated parallel trails. To prevent further degradation of the adjacent natural resources it is important that this trail be repaired to pre-flood conditions.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input type="checkbox"/> Consistent with Master Plans   | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | Fund includes sufficient reserves   |
| Maintains and enhances city's business systems  | Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |   |

### Public Process Status, Issues

No public process is planned.

### Relationship with Other Departments

Local fire, law enforcement and rescue agencies use the lower part of the trail for access into the area along with the City of Louisville Water Department.

### Change from Past CIP

This is a new project - a result of the 2013 Flood.

### Estimated Total Cost

#### Project Cost

Planning	\$5,000
Acquisition	
Construction	\$95,000
<b>Total Project Cost</b>	<b>\$100,000</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$100,000
Funding Total	(\$100,000)

<b>Total Unfunded</b>	<b>\$0</b>
-----------------------	------------

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$100,000</b>					

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$1,000    **Funding Source:** Open Space Fund

#### Additional Annual O&M Description:

OSMP allocates funds each year for maintenance



**Project Name:** South Mesa Road and Shanahan Ridge Trail Flood Repair

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843068	<b>Map Number:</b>	128
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Each of these trails was severely eroded in the September, 2013 rainfall event. They are all in the same area of the OSMP system and are connected to each other so it makes sense to repair all of them at the same time. This system of trails provides routes for emergency fire and medical access.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>    Maintains and enhances city's business systems</li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> <li>Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

Plans will be presented to OSBT for public and Board comment.

**Relationship with Other Departments**

Local fire, law enforcement and rescue agencies along with city utilities, local and county historic organizations.

**Change from Past CIP**

This is a new project - a result of the 2013 Flood.

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$70,000
Acquisition	
Construction	\$474,700
<b>Total Project Cost</b>	<b>\$544,700</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$544,700
Funding Total	(\$544,700)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$544,700	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$544,700</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$10,000    **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**  
OSMP allocates funds each year for maintenance



**Project Name:** Viele House Foundation Repair

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	740003	<b>Map Number:</b>	129
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

The Viele House is a City of Boulder Historic Landmark. It was built in the late 1800s and is part of an historic farmstead still in use. Construction of the intersection at Cherryvale and Table Mesa has caused natural drainage of ground and ditch water to back up into the area, and has filled the basement for a period of many years. Water drainage was corrected in 2014, and now repairs to the foundation need to be made before the house further deteriorates.

### Relationship to Guiding Principles

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans</li> <li><input type="checkbox"/> Achieves Community Sustainability goals                             <ul style="list-style-type: none"> <li>Includes sufficient funding for operation and maintenance</li> </ul> </li> <li><input type="checkbox"/> Maintains and enhances city's business systems</li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets</li> <li><input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit                             <ul style="list-style-type: none"> <li>Fund includes sufficient reserves</li> </ul> </li> <li><input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|--|

### Public Process Status, Issues

### Relationship with Other Departments

Viele/Van Vleet repair will go through LPAB and County HPAB since it is in both city and county.

### Change from Past CIP

This is a new project in the OSMP CIP.

### Estimated Total Cost

#### Project Cost

Planning	\$10,000
Acquisition	
Construction	\$70,000

**Total Project Cost** \$80,000

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$80,000
Funding Total	(\$80,000)

**Total Unfunded** \$0

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$80,000</b>					

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$2,000 **Funding Source:** Open Space Fund

#### Additional Annual O&M Description:

OSMP allocates funds each year for maintenance



**Project Name:** Visitor Infrastructure - System Wide

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	843000	<b>Map Number:</b>	0
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	

### Project Description

This program provides funding on a system-wide basis for capital maintenance and new construction on existing trails and trail heads, new trails and trail heads, other facilities that improve the visitor experience (e.g. safe road crossings), and capital restoration of areas where visitor impacts are high. This project is for an ongoing funding program. In 2015, no funds will be spent on this project as individual projects are identified and funded.

### Relationship to Guiding Principles

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | Fund includes sufficient reserves  |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |  |

### Public Process Status, Issues

Projects are approved by the OSBT through the public process. Projects whose scope requires a CEAP are also approved by City Council under the CEAP call-up provision. In addition, the public has input via email and public meetings in the trail study area planning process.

### Relationship with Other Departments

Where appropriate OSMP coordinates with City of Boulder Parks and Recreation, Boulder County Transportation and CDOT concerning access issues to this area.

### Change from Past CIP

Individual & specific projects are being funded by OSMP CIP.

### Estimated Total Cost

#### Project Cost

Planning  
Acquisition  
Construction

**Total Project Cost**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total  
Funding Total (\$2,000,000)

**Total Unfunded**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$350,000	\$0	\$250,000	\$200,000	\$200,000	\$500,000	\$500,000
<b>Total Funding Plan</b>	<b>\$2,000,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$2,000 **Funding Source:** Open Space Fund

#### Additional Annual O&M Description:

Monitor, maintain, rehabilitate trails when needed



**Project Name:** Water Rights Acquisition

**Project at a Glance**

<b>Project Type:</b>	Land and Asset Acquisition	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Open Space & Mountain Parks	<b>BVCP Area:</b>	Area III
<b>Project Number:</b>	930000	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This on-going project provides funding to purchase additional water rights from private owners or others for use on Open Space for agricultural and environmental purposes. Program funding includes water acquisitions in the Coal Creek, South Boulder, Boulder and Lefthand Creek watersheds. Funding will also be used for professional fees, legal and engineering fees, analysis and mapping necessary to manage and protect the water rights portfolio. Because of continuing wildlife and habitat concerns, the Open Space and Mountain Parks Resource Operations staff will continue to work with other city departments to assist in enhancing in-stream flow where possible. Senior water rights can exceed \$100,000 per share. Additionally, the department has annual expenditures for the attorney fees and engineering fees that are required, as noted in this project's description, to defend the department's water rights portfolio. This project is for an ongoing funding program. In 2014, \$200,000 will be allocated for acquisition of water rights. The Water Rights Acquisition program provides funding to purchase additional water shares for use on Open Space for agricultural and environmental purposes, as water becomes available in the Coal Creek, South Boulder, Boulder and Lefthand Creek water sheds. However, no water rights have been purchased in the past year. For 2014, there is \$535,091 available for water rights acquisition comprised of \$200,000 from the 2014 CIP and \$335,091 carried over from unexpended 2013 water rights CIP. The definition of a CIP project includes "the purchase of the physical assets of the community". By purchasing the water rights, the city is purchasing a physical asset.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
  - Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

Annual funding is approved by both the Open Space Board of Trustees and City Council.

**Relationship with Other Departments**

The Open Space & Mountain Parks department works cooperatively with other City of Boulder Departments, primarily Parks and Recreation, Utilities and Transportation. The department also works with and promotes inter-governmental cooperation with national, state and local conservation and Open Space programs, such as Boulder County Open Space, Jefferson County Open Space, Louisville, Lafayette and Longmont, Colorado Open Space Alliance (COSA), GOCO, Colorado Department of Natural Resources, CDOW and others.

**Change from Past CIP**

No Changes.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$0

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total (\$1,400,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Open Space Fund	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
<b>Total Funding Plan</b>	<b>\$1,400,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Open Space Fund

**Additional Annual O&M Description:**

Included in annual appropriations for operations

[This page is intentionally blank.]

## **Funding Overview**

### **.25 Cent Sales Tax Fund**

With the renewal of this tax in November 2012, the revenues from this funding source were pledged “to fund Parks and Recreational services, development, renovation and refurbishment, and parkland acquisition for passive and active recreational uses” (.25 Cent Sales Tax ballot language).

### **Permanent Parks and Recreation Fund**

The Permanent Parks and Recreation Fund consists of a .9 mill levy of assessed valuation of all taxable property in the city, gifts and donations to the fund, and proceeds from the sale of park or recreation property or equipment. The fund also includes revenues from a portion of a development excise tax assessed on each new residential unit constructed or annexed to the city except for those units that are designated as permanently affordable. The City Charter requires that the “...Fund shall not be used for any purpose other than the acquisition of park land or the permanent improvement of park and recreation facilities.” (Charter Sec 161)

### **Lottery Fund**

The Lottery Fund is based on proceeds from the Conservation Trust Fund that is distributed by the State of Colorado on a per capita basis to entities. Funding can be used for the acquisition, development and maintenance of new conservation sites, capital improvements for recreational purpose.

### **Capital Development Fund**

The capital development fund accounts for citywide development impact fee collections allocated to growth-related parks and recreation facility development.

### **Boulder Junction Improvement Fund**

The Boulder Junction Improvement Fund was created in 2011 for the Boulder Junction Key Public Improvements. Funding is provided from development related revenues generated in the Boulder Junction Area that will be reinvested into key public improvements in this area.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by DUHMD/PS. CIB funding is indicated by the following symbol: 



## 2013 Flood Impact

The magnitude of the 2013 flood to Parks and Recreation was approximately \$1.6M in damages to many parks and facilities located along urban stream corridors. This amount is roughly half of the department's annual CIP budget and will be mostly reimbursed through FEMA over the next few years. Fortunately, for the flood recovery projects, the department was able to utilize existing capital improvement bond funds that were allocated to address critical deficiencies within existing assets such as playgrounds, sports fields, shelters and other parks amenities. By utilizing the existing bond funds, the department was able to minimize any long term impacts to the long term CIP other than having to prioritize available funds in the near-term during the recovery. Once the reimbursement funds from FEMA return to the department, staff will begin implementing and completing projects that were put on hold during the flood recovery process. These projects include many of the parks and facilities that were prioritized during the initial project planning during the capital improvement bond initiative.

## Accomplishments and Highlights

Projects to be Completed in 2014:

-  Boulder Reservoir Infrastructure Improvements: In 2014, major utility upgrades were completed with the construction of a new sanitary sewer system and water line. Additional improvements include dock renovations, parking lot repair and various interior and exterior building improvements
- Mesa Memorial Park: Construction of the new neighborhood park in south Boulder along Table Mesa Drive between Yale and Hartford. This new neighborhood park provides several amenities for neighbors within a half mile radius to enjoy and meet the needs for parks facilities in the neighborhood
- Boulder Reservoir Site/Management Plan: This project continues to address programmatic, business and operational needs, as well as identify capital improvement programming, and monitoring efforts for long-term reinvestments designed to enhance water quality, protect natural resources and optimize recreational opportunities. Currently, the project is in the data collection and public engagement phase to review the current conditions with the community and begin identifying indicators and monitoring practices that will inform future management actions
- Flatirons Golf Course Irrigation Replacement: Completed the irrigation replacement with a new innovative system that allows increased water efficiency, operational efficiencies and improved playability of the course
- Elks Neighborhood Park: Construction of the neighborhood park in North Boulder adjacent to 28<sup>th</sup> Street



Boulder Reservoir entry construction.



- Valmont City Park Planning: Updated the concept plan for the park through research, community engagement and community partnerships. The new plan reflects the current needs and trends of the community for parks and recreation facilities and will allow future funding opportunities to be discovered to allow implementation

### Projects Expected for Completion in 2015:

- Aquatic Facility Plan: Planning and feasibility analysis to determine demand and capacity of aquatics needs throughout the community
- Parks and Recreation Facility Renovations: Crestview Park will be renovated with turf and irrigation upgrades, ADA compliance and replacement of park amenities as part of the ongoing Capital Bond Funding
- Park Shelter Replacements/Improvements: A new reservation pavilion will be installed at Harlow Platts Park to serve the park users by allowing for reservations and special events
- Urban Forest Strategic Management Plan: Comprehensive plan to provide specific management direction through policies that will balance the long-term sustainability of the urban forest with the outcomes of the community's sustainability framework
- Planning, Design and Construction Standards: Development of comprehensive guidelines and standards for the planning, design and construction of urban parks and facilities. This plan will engage all staff and stakeholders in determining process, roles and responsibility in addition to complimenting current local and federal guidelines and standards. The completion of this critical plan will enable the department to accurately and efficiently plan and develop parks and recreation facilities based upon community goals, operational efficiency and industry best practices
- Historic Railroad Coach Restoration: Renovation of the city-owned railroad coach currently located at the Railroad Museum in Golden, CO. The coach has antique wood siding that is in critical need of repair to maintain the coach at an acceptable standard as indicated in a recent grant from the State Historical Fund. Delaying this project would cause further deterioration and more costly repairs at a later date
- Coot Lake Restoration: Stabilization and restoration of the north bank of Coot Lake that currently poses a critical safety issue and continued degradation of the resource values of the lake. The project will include trail restoration, bank stabilization and vegetative restoration of this important and highly used natural area within the city's system
- Court Repairs and Renovation: This project will provide funding to provide critical repairs and complete replacements to several tennis and basketball courts throughout the parks and recreation system to ensure operational efficiency, user safety and an acceptable condition based on the asset management system
- Recreation Center Enhancements: Pending the outcome and strategies of the Recreation Facility Strategic Plan, this project will fund the initial implementation projects outlined within the plan. A critical project that has been identified previously



includes renovating the front desk area at the North Boulder Recreation Center to increase operational efficiency of user access and safety of center customers.

### Projects Starting in 2015, but Not Completed:

- Emerald Ash Borer Response Measures: As a result of the recent discovery of the Emerald Ash Borer (EAB), a response plan is currently in development to slow the spread of the pest and maintain a safe community from the potential hazards of multiple dead and dying trees within the urban core of the community. This project would provide annual funding to hire contractors for removal and replacement of the trees affected by the EAB to re-establish streetscapes and park areas that contribute to many of the sustainability goals of the city.
- Playground and Irrigation System Replacement/Renovation: Ongoing program to annually address removal and replacement of critical park amenities as scheduled and programmed within the department's asset database.

### Highlights of 2016–2020 Projects:

- Pearl Street Mall Irrigation Replacement: Ongoing renovation of critical irrigation infrastructure and tree replacement to maintain and enhance the Pearl Street Mall. The mall is a critical asset to the community and provides community engagement, economic development and preservation of a unique landmark
- Recreation Facility Strategic Plan: Planning study and analysis to guide the future repair, renovation and improvement of recreation facilities through an assessment of the existing physical systems. Additionally, operational efficiencies, improvements and remodeling strategies will be reviewed to ensure the facilities are meeting the needs and demands of the community comparable to other facilities. This plan will be done in collaboration with the Facilities and Asset Management Division.

## Relationship to Guiding Principles and Prioritization

### CIP Guiding Principles:

A principle objective of the current Parks and Recreation Master Plan Update focuses on maintaining existing parks and recreation facilities by “taking care of what we have.” As a result, the department has prioritized CIP projects based on meeting essential safety and compliance considerations, as well as maintaining existing facilities through ongoing annual repair and refurbishment programs and life-cycle replacement programs of park playground equipment and irrigation infrastructure systems. In most cases, projects identified in the 2015–2020 CIP are indented to improve ongoing maintenance needs. Projects such as Pearl Street Mall Irrigation System Replacement and Playground and Irrigation System Replacements strive to improve long-term operational needs and protect existing assets while reducing annual maintenance costs.

A second important objective is to improve efficiencies in operational and capital investments resulting in extending life cycles of equipment and facilities whenever possible. The proposed CIP



projects contribute to improving citywide energy efficiency and water conservation efforts addressing existing parks and recreational facilities. Projects are also consistent with the communities overall greenhouse gas and carbon footprint reduction objectives. Projects such as the Recreation Facility Strategic Plan will address department-wide efficiencies aimed at improving operational practices and seeking alternative funding opportunities needed to support the department's mission.

In addition, due to new federal ADA regulations, the department is required to respond to specific mandates and timelines to audit all parks and recreational facilities and to improve identified facilities to meet new federal ADA regulations, The ADA Compliance Improvements project will continue to address the new federal mandates and ensure the department remains in compliance with access issues for parks and recreational facilities.

### Prioritization:

The following guiding principles are applied when identifying and evaluating priority capital improvement projects. The proposed projects identified in the 2015–2020 CIP are consistent with the CIP Guiding Principles and the current Parks and Recreation Master Plan.

- Safety/Compliance (S): Projects represent important deficiencies or safety and compliance concerns. Project may focus on annual infrastructure repair and replacement and/or refurbishment of park play equipment and amenities, irrigation systems, landscape and turf upgrades and facility improvements
- Commitment (C): Projects that are required by law or a ballot initiative, or are in-process of development as part of a prior development agreement and/or are required to be completed within a specific period of time
- Efficiencies (E): The department will consistently seek efficiency improvements in both operational and capital investments. Projects will represent important operational and/or maintenance efficiencies resulting in improved life cycles, cost efficiencies and savings in resources, energy or water usage (e.g., Flatirons Golf Course Irrigation System Replacement, Computerized Irrigation System)
- Revenue (R): The department will invest in facilities and programs that generate revenues to support valued recreational opportunities in the Boulder community. Projects will enhance the department's ability to earn revenue beyond initial investment and operational costs and may include possible collaboration/ partnership opportunities leveraging outside funding sources.

Projects not in Master Plans:

None.

### New Projects

- Recreation Facility Strategic Plan: Planning study and analysis to guide the future repair, renovation and improvement of recreation facilities through an assessment of the existing physical systems, operational efficiencies, improvements and remodeling



strategies to ensure the facilities are meeting the needs and demands of the community comparable to other facilities

- Urban Forest Strategic Management Plan: Comprehensive plan to provide specific management direction through policies that will balance the long-term sustainability of the urban forest with the outcomes of the community's sustainability framework
- Planning, Design and Construction Standards: Development of comprehensive guidelines and standards for the planning, design and construction of urban parks and facilities
- Historic Railroad Coach Restoration: Renovation of the city-owned railroad coach currently located at the Railroad Museum in Golden, CO. Delaying this project would cause further deterioration and more costly repairs at a later date
- Coot Lake Restoration: Stabilization and restoration of the north bank of Coot Lake that currently poses a critical safety issue and continued degradation of the resource values of the lake. The project will include trail restoration, bank stabilization and vegetative restoration of this important and highly used natural area within the City's system
- Emerald Ash Borer Response Measures: As a result of the recent discovery of the Emerald Ash Borer (EAB), a response plan is currently in development to slow the spread of the pest and maintain a safe community from the potential hazards of multiple dead and dying trees within the urban core of the community
- Court Repairs and Renovation: This project will provide funding to provide critical repairs and complete replacements to several tennis and basketball courts throughout the parks and recreation system to ensure operational efficiency, user safety and an acceptable condition based on the asset management system
- Recreation Center Enhancements: Pending the outcome and strategies of the Recreation Facility Strategic Plan, this project will fund the initial implementation projects outlined within the plan.

### **Operation and Maintenance Impacts**

The department prioritizes capital projects based upon maintaining existing assets and decreasing the maintenance backlog of the department's portfolio of parks and facilities. Therefore, the majority of projects included in the department's Capital Improvement Program will decrease maintenance costs as a result of replacement of aging infrastructure and efficiencies associated with new and improved facilities and systems. All of these projects will actually reduce the O&M costs over time. However, as the department fulfills commitments relative to long-term planning needs such as the Boulder Junction Pocket Park and Violet Neighborhood Park in the future, the department will need to further prioritize and explore funding opportunities to maintain these new facilities.

### **Deferred Projects, Eliminated or Changed Projects**

Due to the September flood of 2013, the department had to focus on some of the critical damages to parks and recreation infrastructure. Overall the department sustained about \$2M in damages



to infrastructure that the majority is eligible FEMA reimbursement. Some of the regularly scheduled infrastructure renovations had to be delayed due to this unexpected increase in work load and funding needs. However, as funds are reimbursed by FEMA, the department will have the opportunity to return to the normal prioritization of infrastructure renovations as scheduled through the department's asset management program and typically funded through the CIP. Additionally, as a result of limited capital funding for the proposed 2015–2020 CIP, in 2015, funding for the Playground and Park Irrigation System Replacement will support other critical systems needs such as the Pearl Street Mall Irrigation System Replacement and the Urban Parks Computerized Irrigation System Replacement, efforts that require critical timelines for completion.

### **Unfunded Projects and Emerging Needs**

In the long-term, additional funding will need to be secured to develop any new major facilities as well as improve service standards for maintenance operations and to fund deferred maintenance. The department's Master Plan includes a list of priority items to complete, based on various funding levels. Staff continues to evaluate deferred maintenance needs, including park sites and recreation facility needs and will be implementing an Asset Management Plan (AMP) to assist in capital planning and day-to-day operations. The current maintenance and facility improvements backlog, including major repairs and replacements is significant. The department anticipates that this backlog will continue until funding levels reach appropriate amounts to accommodate life-cycle projections for the department's assets.

The current budget reflects an economic reality that is not predicted to shift anytime soon, and it is within this reality that the department must plan for the future. With a maintenance backlog estimated at over \$27 million, the department faces difficult trade-off decisions about how to manage and operate its facilities and provide its programs. City guidelines regarding capital improvement prioritize the maintenance of current assets over the development of new facilities, and through the Master Planning process, the community has indicated strong support for this concept. Even with the indications of a modest economic turnaround and the passage of the .25 Cent Sales Tax renewal, the department must focus on maintaining and improving all deteriorating assets. Simultaneously the department must respond to the community's shifting values related to new facilities by providing adequate facilities to meet those needs and by making them accessible to the entire community.

To mitigate the impacts of limited funding, staff is:

- Working collaboratively with Facilities and Asset Management (FAM) workgroup to prioritize funding for deferred, major and ongoing facility maintenance
- Deferring low priority improvements and new capital projects that cannot be funded operationally
- Reevaluating work plans and investing in projects that mitigate ongoing maintenance



and operational expenses

- Redirecting funding or accelerating projects to achieve energy efficiencies at recreation facilities.

The department has unfunded significant deficiency and high priority projects included in the current capital investment strategy program. Key projects include:

- System-wide compliance with federal standards for the Americans with Disabilities Act
- Increased capacity and additional facilities for youth and adult sports
- Expansion and enhancement of recreation centers that accommodate increased demand for weight rooms and fitness areas
- Boulder Reservoir infrastructure upgrades to increase operational efficiencies and improve public amenities
- Park infrastructure upgrades for the Civic Area and Pearl Street Mall
- Major parking lot renovations at key sports facilities
- New park development to achieve appropriate levels of service for planned neighborhood parks such as Violet Park and Heatherwood Park
- Infrastructure associated with Valmont City Park Phase 2 development.

### **Advisory Board Action**

On April 28, 2014, the Parks & Recreation Advisory Board voted (6-0) to approve the recommended 2015-2020 Capital Improvement Program.

[This page is intentionally blank.]

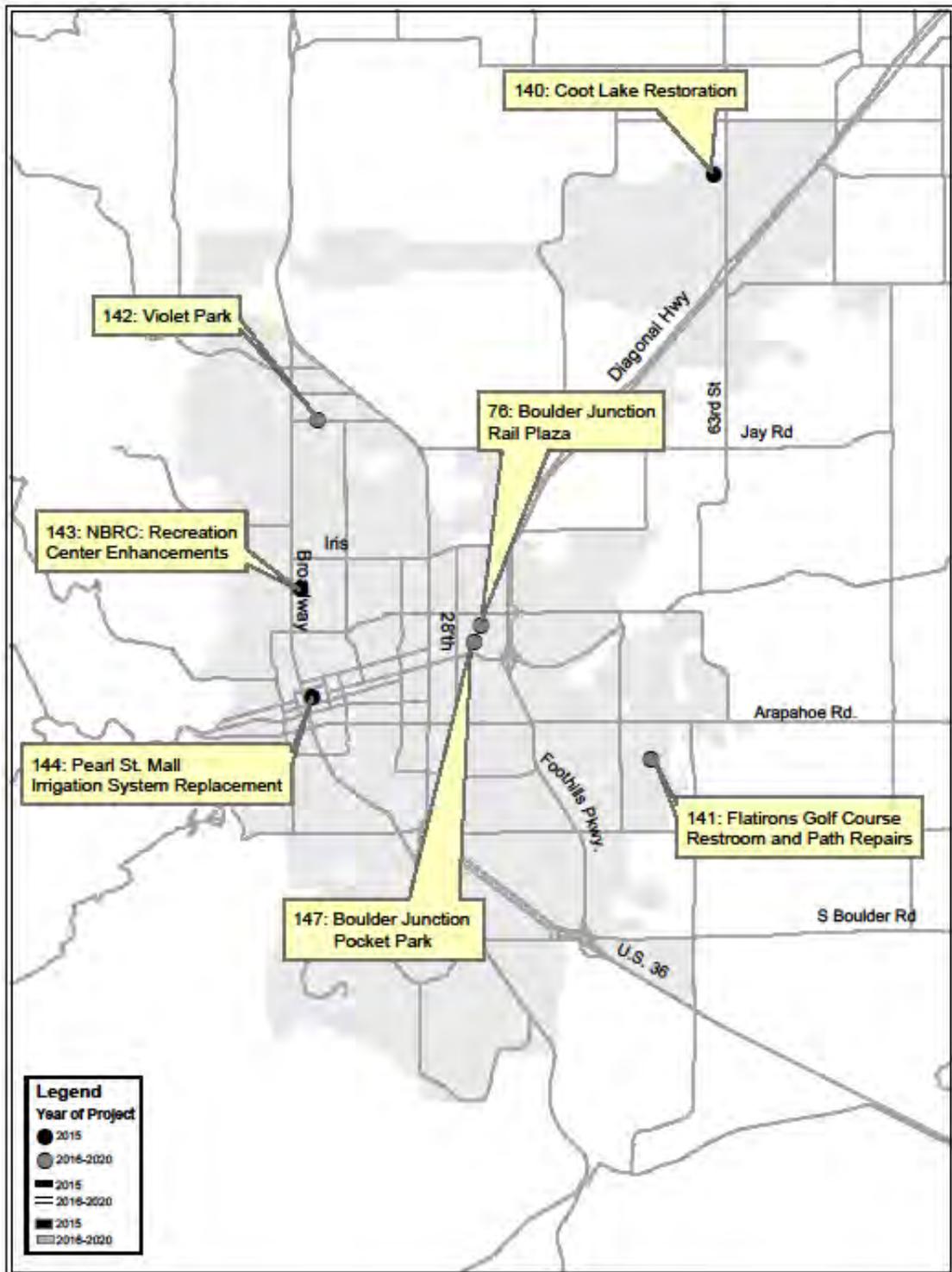
Table 11-1: 2015-2020 Funding Summary By Department

**PARKS AND RECREATION**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Rec Center Enhancements .25	\$ 460,000	\$ -	\$ 180,000	\$ 280,000	\$ -	\$ -	\$ -	\$ 460,000	\$ -	\$ -
ADA Compliance Improvements	800,000	100,000	100,000	200,000	200,000	-	-	600,000	200,000	-
Coot Lake Restoration	250,000	250,000	-	-	-	-	-	250,000	-	-
Emerald Ash Borer Response Measures	890,000	230,000	220,000	220,000	220,000	-	-	890,000	-	-
Recreation Center Enhancements	1,220,000	280,000	100,000	-	280,000	280,000	280,000	1,220,000	-	-
Artificial Turf Field Installation	1,500,000	-	500,000	500,000	500,000	-	-	1,500,000	-	-
Lighting Ordinance Implementation	500,000	-	250,000	250,000	-	-	-	500,000	-	-
Playground and Park Irrigation System Renovation	1,500,000	-	300,000	300,000	300,000	300,000	300,000	1,500,000	-	-
Playground and Park Irrigation System Renovation - Lottery	1,151,200	-	230,300	230,000	230,300	230,300	230,300	1,151,200	-	-
<b>Subtotal</b>	<b>\$ 8,271,200</b>	<b>\$ 860,000</b>	<b>\$ 1,880,300</b>	<b>\$ 1,980,000</b>	<b>\$ 1,730,300</b>	<b>\$ 810,300</b>	<b>\$ 810,300</b>	<b>\$ 8,071,200</b>	<b>\$ 200,000</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Historic Railroad Coach Restoration	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -
Pearl Street Mall Irrigation System Replacement	1,500,000	550,000	-	-	-	-	-	550,000	550,000	400,000
Pearl Street Mall Irrigation System Replacement - Lottery	-	200,000	-	-	-	-	-	200,000	400,000	-
Pool Replastering	230,000	75,000	-	-	-	-	-	75,000	155,000	-
Flatirons Golf Course Restroom and Path Repairs	-	-	200,000	-	-	-	-	200,000	-	(200,000)
Court Repairs and Renovation	280,000	-	-	-	280,000	-	-	280,000	-	-
Parking Lot Repair	860,000	-	-	-	220,000	420,000	220,000	860,000	-	-
<b>Subtotal</b>	<b>\$ 2,970,000</b>	<b>\$ 925,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ 420,000</b>	<b>\$ 220,000</b>	<b>\$ 2,265,000</b>	<b>\$ 1,105,000</b>	<b>\$ 200,000</b>
<b>Capital Planning Studies</b>										
Parks and Recreation Planning, Design, and Construction Standards	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -
Recreation Facility Strategic Plan	150,000	150,000	-	-	-	-	-	150,000	-	-
Urban Forest Management Plan	120,000	120,000	-	-	-	-	-	120,000	-	-
<b>Subtotal</b>	<b>\$ 370,000</b>	<b>\$ 370,000</b>	<b>\$ -</b>	<b>\$ 370,000</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Land and Asset Acquisition</b>										
Boulder Junction Rail Plaza	\$ 1,874,000	\$ -	\$ -	\$ -	\$ 374,000	\$ 1,500,000	\$ -	\$ 1,874,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 1,874,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 374,000</b>	<b>\$ 1,500,000</b>	<b>\$ -</b>	<b>\$ 1,874,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>New Capital Project</b>										
Boulder Junction Pocket Park	\$ 1,926,227	\$ -	\$ 750,000	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ 1,450,000	\$ 476,227	\$ -
Violet Park	500,000	-	-	-	-	500,000	-	500,000	-	-
<b>Subtotal</b>	<b>\$ 2,426,227</b>	<b>\$ -</b>	<b>\$ 750,000</b>	<b>\$ 350,000</b>	<b>\$ 350,000</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 1,950,000</b>	<b>\$ 476,227</b>	<b>\$ -</b>
<b>Transfer</b>										
Tributary Greenways Program - Lottery	\$ -	\$ 125,400	\$ 125,400	\$ 125,400	\$ 125,400	\$ -	\$ -	\$ 501,600	\$ 150,000	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ 125,400</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 501,600</b>	<b>\$ 150,000</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 15,911,427</b>	<b>\$ 2,280,400</b>	<b>\$ 2,955,700</b>	<b>\$ 2,455,400</b>	<b>\$ 3,079,700</b>	<b>\$ 3,230,300</b>	<b>\$ 1,030,300</b>	<b>\$ 15,031,800</b>	<b>\$ 1,931,227</b>	<b>\$ 200,000</b>



### City of Boulder Capital Improvement Projects, 2015 - 2020 Parks & Recreation





**Project Name:** ADA Compliance Improvements

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	Area 1
<b>Project Number:</b>		<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

In response to the new Department of Justice ADA regulations, the Parks and Recreation Department was required to complete an audit of all park and recreational facilities by March 2012. The initial audit began in 2011 to assess up to 10 recreational facilities and 20 park sites and was completed in late 2012. The audit and assessment led to the development of a transition plan for the department that will prioritize the schedule for improvements for ADA compliance within parks and facilities. Upon completion of the plan, the department now has a comprehensive list, priorities and costs for the system-wide ADA improvements. Funding has then been set aside annually to complete required ADA improvements in order to meet new federal mandated deadlines for compliance. Many years of funding will need to be allocated to provide full ADA compliance. Therefore, the department is utilizing the transition plan to identify key priorities each year.

In 2015, funding will be prioritized for the Boulder Reservoir which is a unique, stand-alone facility in the community and requires compliance with docks and other recreation amenities.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li>Maintains and enhances city's business systems</li> <li>Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

The department developed the ADA Transition Plan for parks, facilities and programs throughout 2012. In addition to internal City coordination among several departments, Parks and Recreation staff also engaged several community groups, facilitated an open house and presented information through the Parks and Recreation Advisory Board.

**Relationship with Other Departments**

The Parks and Recreation Department will continue to coordinate with FAM and Public Works during the implementation of the plan including monitoring and updating progress relative to other capital projects.

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$50,000
Acquisition	\$0
Construction	\$750,000
<b>Total Project Cost</b>	<b>\$800,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$800,000
Funding Total	(\$800,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Parks & Recreation .25 Cent Sales Tax Fund	\$200,000	\$100,000	\$100,000	\$200,000	\$200,000	\$0	\$0
<b>Total Funding Plan</b>	<b>\$800,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** .25 Cent Sales Tax

**Additional Annual O&M Description:**

The ADA compliance improvements have no significant impact on operating costs either positive or negative.



**Project Name:** Artificial Turf Field Installation

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

As recommended in the department's master plan, the Parks and Recreation Department intends to improve existing natural turf athletic fields and to replace existing turf fields with new synthetic turf in select park sites. The conversion of fields to artificial turf will increase the capacity of field use within the community by extending the season of use of the fields and allow more programmed uses resulting in improved revenues from field rentals and tournament play. The department has recently conducted feasibility studies and intends to design and construct priority field improvements at locations determined through the athletic field study. Specific park sites could include Valmont City Park, Foothills Community Park, Pleasantview Sports Complex, East Boulder Community Park or Harlow Platts Park.

This project allows the department to focus on youth engagement and activity as indicated in the department's master plan by providing appropriate facilities and opportunities for youth sports. Additionally, this project will provide efficiency and improvement in maintenance and operations in order to allow the department more flexibility in maintenance of athletic fields throughout the community. Finally, the artificial turf does not require water use as does natural turf fields, therefore reducing water consumption and conserving natural resources associated with the department's environmental sustainability goals.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance</li> <li> <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets</li> <li>✓ Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

The planning and design process will include input from park neighbors, user groups and the Parks and Recreation Advisory Board.

**Relationship with Other Departments**

Parks and Recreation will coordinate with Planning and Development Services, Utilities, Transportation and other departments as necessary.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$50,000
Acquisition	
Construction	\$1,450,000
<b>Total Project Cost</b>	<b>\$1,500,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$1,500,000
Funding Total	(\$1,500,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$0	\$0	\$500,000	\$500,000	\$500,000	\$0	\$0
<b>Total Funding Plan</b>	<b>\$1,500,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Existing Park Operations Maintenance Funds

**Additional Annual O&M Description:**

O&M costs will be decreased as a result of the project. Annual maintenance includes adding new rubber to the field and sweeping as necessary.



**Project Name:** Boulder Junction Pocket Park

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Crossroads
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	
<b>Project Number:</b>		<b>Map Number:</b>	147
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Parks and Recreation Department has identified funding to address the future pocket park land acquisition and development associated with the Boulder Junction redevelopment project. This project is a long range infill redevelopment that will include civic public spaces and/or pocket parks that will require Parks and Recreation input, technical expertise and perhaps funding contributions. The proposed pocket improvement will include land acquisition for a 3/4-acre civic park, construction of Goose Creek multi-use path connection, grading and drainage improvements, hardscape pavers, retaining walls, landscape, irrigation and civic park amenities to support the park space.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
- \_\_\_ Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
  - Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The planning process will include an appropriate public process, which will be identified in the scope of the plan.

**Relationship with Other Departments**

The Parks and Recreation Department will coordinate with Public Works-Utilities/Transportation, Housing and Planning, and other departments, landowners and agencies as appropriate.

**Change from Past CIP**

**Estimated Total Cost**      **Unfunded Amount**

<b>Project Cost</b>		<b>Unfunded Amount</b>	
Planning	\$60,000	Project Cost Total	\$1,926,227
Acquisition	\$750,000	Funding Total	(\$1,926,227)
Construction	\$1,116,227		
<b>Total Project Cost</b>	<b>\$1,926,227</b>	<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Boulder Junction Improvement Fund	\$476,227	\$0	\$750,000	\$350,000	\$350,000	\$0	\$0
<b>Total Funding Plan</b>	<b>\$1,926,227</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$6,668      **Funding Source:** Not Determined

**Additional Annual O&M Description:**

Annual maintenance will include irrigation, mowing, trash removal, snow removal, maintenance of land



**Project Name:** Boulder Junction Rail Plaza

**Project at a Glance**

<b>Project Type:</b>	Land and Asset Acquisition	<b>Subcommunity:</b>	Crossroads
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	76
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project was included in the list of Key Public Improvements as part of the Transit Village Area Plan (TVAP) - Implementation Plan. This project includes the land acquisition costs for the development of the Rail Plaza in 2019, pending coordination with private development in the location of the plaza.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- ✓ Sustains or improves existing assets
- ✓ Achieves Community Sustainability goals
- Maximizes efficiency and demonstrates positive cost/benefit
- ✓ Includes sufficient funding for operation and maintenance
- Fund includes sufficient reserves
- Maintains and enhances city's business systems
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency
- ✓ Provides capacity and flexibility in long term planning

**Public Process Status, Issues**

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

**Relationship with Other Departments**

The TVAP was a coordinated multi-department effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility/possible Transit-Oriented Development and future Northwest Rail facilities.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	
Acquisition	\$374,000
Construction	\$1,500,000
<b>Total Project Cost</b>	<b>\$1,874,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$1,874,000
Funding Total	(\$1,874,000)

<b>Total Unfunded</b>	<b>\$0</b>
-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Boulder Junction Improvement Fund	\$0	\$0	\$0	\$0	\$374,000	\$1,500,000	\$0
<b>Total Funding Plan</b>						<b>\$1,874,000</b>	

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**



**Project Name:** Coot Lake Restoration

**Project at a Glance**

**Project Type:** Capital Enhancement  
**Department:** Parks & Recreation  
**Project Number:**  
**CEAP Required:** No

**Subcommunity:** Area III  
**BVCPArea:** Outside Planning Area  
**Map Number:** 140  
**CEAP Status:**

**Project Description**

The department's recent master plan identifies the critical need for "close to home" opportunities for residents to engage with natural areas and recreation facilities. Coot Lake, located adjacent to the Boulder Reservoir accommodates this opportunity for many residents in Boulder and throughout the region. A key implementation project outlined in the Boulder Reservoir Master Plan includes restoration and improvement to Coot Lake adjacent to the Boulder Reservoir. This project will provide stabilization and restoration of the north bank of Coot Lake that currently poses a critical safety issue and continued degradation of the resource values of the lake. The project will include trail restoration, bank stabilization and vegetative restoration of this important and highly used natural area within the city's system. This project will also provide updated amenities and signage to improve the visitor experience and meet current standards for park design and improvement.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

Throughout the project the community will be engaged in the planning and design of the improvements as well as potential volunteer projects to engage the community in the implementation.

**Relationship with Other Departments**

The Parks and Recreation Department will be working closely with staff from Public Works, Water Quality and Water Conservation to determine appropriate strategies, implementation and monitoring processes.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	
Acquisition	
Construction	\$250,000
<b>Total Project Cost</b>	<b>\$250,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$250,000
Funding Total	(\$250,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Lottery Fund	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0
Permanent Parks & Recreation Fund	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0
<b>Subtotal All Funds</b>	<b>\$0</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Funding Plan</b>		<b>\$250,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

Proposed enhancements to the park will not significantly impact the existing O&M needs.



**Project Name:** Court Repairs and Renovation

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide major repairs and replacement of many of the city's basketball and tennis courts as mandated by the city's asset management program to ensure a safe and functional playing surface for many of the court sports.

**Relationship to Guiding Principles**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance                             <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> </ul> </li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets                             <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|--|---|

**Public Process Status, Issues**

**Relationship with Other Departments**

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	
Acquisition	
Construction	\$280,000
<b>Total Project Cost</b>	<b>\$280,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$280,000
Funding Total	(\$280,000)

<b>Total Project Cost</b>	<b>\$280,000</b>	<b>Total Unfunded</b>	<b>\$0</b>
---------------------------	------------------	-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Parks & Recreation .25 Cent Sales Tax Fund	\$0	\$0	\$0	\$0	\$280,000	\$0	\$0
<b>Total Funding Plan</b>	<b>\$280,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:

**Additional Annual O&M Description:**



**Project Name:** Emerald Ash Borer Response Measures

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

In late September 2013, the department's Forestry staff discovered an Emerald Ash Borer (EAB) infestation within the city. The subsequent delimitation survey showed that EAB is well established within a corridor in central Boulder. Over the next 15 years, EAB management, including tree removal, tree replacement, wood disposal and pesticide treatments will have a significant direct budgetary impact to the city and private residents. The loss of tree canopy will have considerable economic, social, and environmental impacts for decades. In April, an Information Item detailing the 2014 Emerald Ash Borer work plan was sent to City Council.

As a result of the recent discovery of the Emerald Ash Borer (EAB), a response plan is currently in development to slow the spread of the pest and maintain a safe community from the potential hazards of multiple dead and dying trees within the urban core of the community. This project would provide funding to hire contractors for removal and replacement of the trees affected by the EAB to re-establish streetscapes and park areas that contribute to many of the sustainability goals of the city. This project will include renovation of parking areas, streetscapes, park areas and other sites to remove and replace the trees. The work will include concrete repair, irrigation renovation and turf restoration.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
  - Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The community has already been engaged in the process and able to comment on the response measures. Additionally, staff continue to provide open houses and information through media to increase awareness in the community about the impacts of the issue.

**Relationship with Other Departments**

The Interdepartmental EAB working group will meet over the next year to discuss EAB management on a city-wide scale and ensure consistency across departments. This group will develop a series of recommendations that will be presented to boards and city council during the first quarter of 2015.

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	
Acquisition	
Construction	\$890,000
<b>Total Project Cost</b>	<b>\$890,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$890,000
Funding Total	(\$890,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Parks & Recreation .25 Cent Sales Tax Fund	\$0	\$230,000	\$220,000	\$220,000	\$220,000	\$0	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$230,000</b>	<b>\$220,000</b>	<b>\$220,000</b>	<b>\$220,000</b>	<b>\$0</b>	<b>\$0</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**  
**Additional Annual O&M Description:**



**Project Name:** Flatirons Golf Course Restroom and Path Repairs

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Southeast Boulder
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	141
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Flatirons Golf Course is the city's only course and provides a unique and highly valued service to the resident's. The department's master plan as well as other supporting plans prioritize the maintenance and management of the course to ensure the community's needs are met in a safe and aesthetic facility. Currently the course is in need of repairs to the many cart paths along the course to ensure safety and accessibility to all users. Additionally, the restrooms on the course are in need of repairs and renovations to ensure safety and functionality of the golfers on the course. This project achieves many of the city's sustainability goals as well as the key themes of the department.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance                             <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> </ul> </li> <li>___ Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets                             <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

A series of open houses and community meetings will be conducted to inform and engage the public in the design and construction process.

**Relationship with Other Departments**

Parks and Recreation staff will work closely with multiple departments including Public Works and Community Planning and Sustainability.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$20,000
Acquisition	
Construction	\$180,000

**Total Project Cost** \$200,000

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	
Funding Total	(\$200,000)

**Total Unfunded** (\$200,000)

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Parks & Recreation .25 Cent Sales Tax Fund	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<span style="border: 1px solid black; padding: 2px;">\$200,000</span>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:

**Additional Annual O&M Description:**



**Project Name:** Historic Railroad Coach Restoration

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** Parks & Recreation  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** Outside Planning Area  
**BVCPArea:** Outside Planning Area  
**Map Number:**  
**CEAP Status:**

**Project Description**

Renovation of the city-owned railroad coach currently located at the Railroad Museum in Golden, CO. The coach has antique wood siding that is in critical need of repair to maintain the coach at an acceptable standard as indicated in a recent grant from the State Historical Fund. Delaying this project would cause further deterioration and more costly repairs at a later date.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

This project includes maintenance of an existing asset and doesn't warrant public engagement other than notification of the work being completed.

**Relationship with Other Departments**

This project doesn't require coordination with other departments.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning  
 Acquisition  
 Construction

\$100,000

**Total Project Cost** **\$100,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total \$100,000  
 Funding Total (\$100,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Parks & Recreation .25 Cent Sales Tax Fund	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$100,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

This project will not increase or decrease annual operating costs.



**Project Name:** Lighting Ordinance Implementation

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Based on the departments lighting study, facilities have been identified that are not compliant with the city's lighting ordinance. Based on the study, many opportunities have been identified for energy conservation. The department will implement lighting retrofits in accordance with the city's lighting ordinance and to maximize energy efficiency. The department is accumulating funding in anticipation of replacement and retrofitting lighting fixtures. Criteria for determining the schedule for replacement will include cost, energy savings and safety. In 2016 and 2017, \$500,000 will be spent on upgrades to exterior lighting throughout city parks and recreation facilities to meet local lighting ordinance requirements. This project does not include outside funding sources.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance  
Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit  
Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

City lighting ordinance compliance is required by 2017. No public process is anticipated. The public will be notified on a project by project basis.

**Relationship with Other Departments**

The department will coordinate with Planning, FAM, OEA, CAO, as needed or required.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$50,000
Acquisition	
Construction	\$450,000
<b>Total Project Cost</b>	<b>\$500,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$500,000
Funding Total	(\$500,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$0	\$0	\$250,000	\$250,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$500,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** General Fund and .25 Cent Sales Tax Fund

**Additional Annual O&M Description:**

The implementation of the new fixtures will reduce energy consumption and maintenance costs as a result of the efficiency upgrades.



**Project Name:** Parking Lot Repair

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The department's master plan includes a key theme of "taking care of what we have" which directs the department to focus on the necessary preventative and restorative maintenance of infrastructure throughout the parks and recreation system. Many of the parking lots throughout the city's parks and facilities are in need of repair and replacement in order to continue to maintain safety, functionality and accessibility. This project will provide appropriate resurfacing and repair necessary to meet standards and compliance.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance               <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> </ul> </li> <li>___ Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets               <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

**Relationship with Other Departments**

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$35,000
Acquisition	
Construction	\$825,000
<b>Total Project Cost</b>	<b>\$860,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$860,000
Funding Total	(\$860,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$0	\$0	\$0	\$0	\$220,000	\$420,000	\$220,000
<b>Total Funding Plan</b>	<b>\$860,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**



**Project Name:** Parks and Recreation Planning, Design and Construction Standards

**Project at a Glance**

<b>Project Type:</b>	Capital Planning Studies	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The department has a critical need to develop a guiding document that will outline process, policy, roles and standards for the planning and development of the city's parks and recreation facilities. This project will provide the development of comprehensive guidelines and standards for the planning, design and construction of urban parks and facilities. This plan will engage all staff and stakeholders in determining process, roles and responsibility in addition to complimenting current local and federal guidelines and standards. The completion of this critical plan will enable the department to accurately and efficiently plan and develop parks and recreation facilities based upon community goals, operational efficiency and industry best practices.

The department is currently refining the asset management program that staff utilizes to guide capital project prioritization, major repairs and even daily work orders in order to continue managing the department's assets at acceptable standards. The planning, design and construction standards will allow the department to more effectively and efficiently plan and develop parks and facilities to all applicable standards as well as identify strategic processes that engage all staff and stakeholders.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
  - Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
  - Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The public will be engaged in certain aspects of the planning process.

**Relationship with Other Departments**

Department staff and consultants will work closely with all applicable city departments. The planning process will also specifically engage Planning and Development Services staff to incorporate and compliment the City's design and construction standards.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$100,000
Acquisition	
Construction	

**Total Project Cost** **\$100,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$100,000
Funding Total	(\$100,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$100,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

This plan has no capital or maintenance costs associated with the completion of the project.



**Project Name:** Pearl Street Mall Irrigation System Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	144
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The irrigation system on the Pearl Street Mall is the original system that was installed in the 1970's and a complete renovation is needed. The new irrigation system will utilize new technology for customizing irrigation needs to specific areas and will be extremely efficient in water use resulting in water and energy savings as well as labor savings. This project meets many of the City's Sustainability goals as well as departmental goals. This project will begin in 2010 and be complete by 2015.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input type="checkbox"/> Fund includes sufficient reserves  |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |   |

**Public Process Status, Issues**

The department will coordinate with Pearl Street Mall merchants to schedule repair work and ample public notice will be provided.

**Relationship with Other Departments**

Parks and Recreation staff will coordinate with the Downtown and University Hill Management group and Public Works.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$5,000
Acquisition	\$0
Construction	\$1,495,000

**Total Project Cost** **\$1,500,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$1,500,000
Funding Total	(\$1,500,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$550,000	\$550,000	\$0	\$0	\$0	\$0	\$0
Lottery Fund	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subtotal All Funds</b>	<b>\$950,000</b>	<b>\$550,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Total Funding Plan** **\$1,500,000**

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** (\$113,000) **Funding Source:**

**Additional Annual O&M Description:**

The improvements to Pearl Street Mall irrigation will drastically reduce the annual O&M due to water savings through efficient irrigation infrastructure and reduce staff time in repairing existing infrastructure.



**Project Name:** Playground and Park Irrigation System Renovation

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Boulder's park system is foundational to the mission of the Parks and Recreation Department. Upon completion of the department's master plan in 2013, the department committed to ongoing renovations of playgrounds and irrigation systems to ensure safe, functional and attractive facilities. The specific playground and park irrigation system that will be renovated will be decided on an annual basis through an asset management program and communicated to the public. Projects are necessary to comply with goals and commitments identified in the department's master plan. The department evaluates and prioritizes needs based on criteria including safety and code compliance, age of the equipment, location in the city, and opportunities for efficiencies, collaboration or partnerships with other departments or the surrounding neighborhood.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance  
Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit  
Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The department will conduct outreach to the neighborhood on the needs and design of the playground. Typically, two public meetings are conducted - an initial one to gather suggestions and a follow-up meeting to review design options. The project is posted on the department's website and regular updates are posted. A email group may also be created to update interested community members. The PRAB will be updated on a regular basis.

**Relationship with Other Departments**

Parks and Recreation will coordinate with Planning, Utilities, Water Conservation and Transportation as necessary.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$200,000
Acquisition	
Construction	\$2,451,200
<b>Total Project Cost</b>	<b>\$2,651,200</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$2,651,200
Funding Total	(\$2,651,200)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$0	\$0	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000
Lottery Fund	\$0	\$0	\$230,300	\$230,000	\$230,300	\$230,300	\$230,300
<b>Subtotal All Funds</b>	<b>\$0</b>	<b>\$0</b>	<b>\$530,300</b>	<b>\$530,000</b>	<b>\$530,300</b>	<b>\$530,300</b>	<b>\$530,300</b>

**Total Funding Plan** **\$2,651,200**

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** (\$12,664) **Funding Source:** Lottery fund and .25 Cent Sales Tax Fund

**Additional Annual O&M Description:**

Improvements will result in decrease of maintenance from a water conservation and labor perspective.



**Project Name:** Pool Replastering

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	
<b>Project Number:</b>		<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Parks and Recreation Department manages and operates 11 pools within the city including indoor and outdoor leisure pools, lap pools and hot tubs. As part of ongoing maintenance and repairs to recreation facilities, the Department must prioritize and schedule the replastering of the pools in order to continue to provide safe, clean and accessible facilities for public use. The pools must be replastered every five years and the Department must schedule funds to achieve lifecycles of the plastering. This project will allow replastering of specific pools based on an annual prioritization schedule by staff. Additionally, new replastering products are available that provide long-term maintenance and operational efficiencies. Pools are an integral component in generating revenues for the city and allowing the Department to provide recreation programs and instruction to the community.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
  - Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
- ✓ Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

Ongoing facility maintenance - public process not necessary

**Relationship with Other Departments**

The Parks and Recreation Department will continue to coordinate with FAM in the annual prioritization of replastering projects and scheduling of facility maintenance to minimize disruption to the customers.

**Change from Past CIP**

**Estimated Total Cost**      **Unfunded Amount**

<b>Project Cost</b>		<b>Unfunded Amount</b>	
Planning		Project Cost Total	\$230,000
Acquisition		Funding Total	(\$230,000)
Construction	\$230,000		
<b>Total Project Cost</b>	<b>\$230,000</b>	<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$155,000	\$75,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$230,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0      **Funding Source:**

**Additional Annual O&M Description:**

This project has no significant impact on O&M costs as it is repetitive maintenance on existing assets.



**Project Name:** Recreation Center Enhancements

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	North Boulder
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	Area 1
<b>Project Number:</b>		<b>Map Number:</b>	2
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The department's master plan indicates several key themes that relate to health and wellness, youth activity, community engagement and asset management. To continue supporting these key themes, the department will be providing repairs, renovations and upgrades to recreation centers. In 2015, the department will complete a strategic plan for all recreation centers that illustrates implementation priority for critical projects. Pending the outcome and strategies of the Recreation Facility Strategic Plan, this project will fund the initial implementation projects outlined within the plan. A critical project that has been identified previously includes renovating the front desk area at the North Boulder Recreation Center to increase operational efficiency of user access and safety of center customers.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

As the scope of work is further defined, the necessity of public input will be determined.

**Relationship with Other Departments**

Parks and Recreation staff will coordinate with FAM, Public Works/Utilities, Planning and any other identified department stakeholders as necessary.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$122,000
Acquisition	
Construction	\$1,098,000
<b>Total Project Cost</b>	<b>\$1,680,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$1,680,000
Funding Total	(\$1,680,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$0	\$280,000	\$100,000	\$0	\$280,000	\$280,000	\$280,000
Parks & Recreation .25 Cent Sales Tax Fund	\$0	\$0	\$180,000	\$280,000	\$0	\$0	\$0
<b>Subtotal All Funds</b>	<b>\$0</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$280,000</b>	<b>\$280,000</b>
<b>Total Funding Plan</b>		<b>\$1,680,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

This project will improve the existing facility which will be incorporated into the existing O&M of the center.



**Project Name:** Recreation Facility Strategic Plan

**Project at a Glance**

<b>Project Type:</b>	Capital Planning Studies	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The department's master plan indicates an action item of completing a comprehensive planning study and analysis to guide the future repair, renovation and improvement of recreation facilities to meet community needs and current trends to provide recreation opportunities to the community. This plan will begin with a thorough assessment of the existing physical systems including: structural, mechanical, electrical, plumbing systems, building cladding, roofing, and interior systems. The assessment shall also extend to the following architectural systems: life safety (egress and fire protection) and ADA accessibility. The assessment shall note both the condition of each element, its current code compliance and changes required to bring it into current code compliance. The assessment will address the mechanical, electrical and architectural systems related to energy efficiency and shall note changes required to bring the structure into compliance with the 2012 IECC. City of Boulder flood requirements will also be assessed. Additionally, operational efficiencies, improvements and remodeling strategies will be reviewed to ensure the facilities are meeting the needs and demands of the community comparable to other facilities.

The outcome of this plan will allow the department to work closely with FAM and other departments to effectively manage the City's recreation facilities in terms of regular improvements, ongoing preventative maintenance and major repairs based on conditions and lifecycle of assets. This plan will also inform the department of recommended upgrades that will encourage community use and provide amenities comparable to other communities in order to meet demand.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
- ✓ Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
  - Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
  - Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The community will be invited to open houses to review the planning process and participate in surveys relative to needs and trends in recreation facilities throughout the community.

**Relationship with Other Departments**

Parks and Recreation will work closely with multiple city workgroups such as FAM, Risk Management, Planning and Development Services and Human Services.

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$150,000
Acquisition	
Construction	
<b>Total Project Cost</b>	<b>\$150,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$150,000
Funding Total	(\$150,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Parks & Recreation .25 Cent Sales Tax Fund	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$150,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

This is a planning study and not associated with any capital or maintenance costs. When future capital projects are planned, the O&M will be identified for those distinct projects.



**Project Name:** Tributary Greenways Program - Lottery

**Project at a Glance**

**Project Type:** Transfer  
**Department:** Parks & Recreation  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** Multiple Subcommunities  
**BVCPArea:**  
**Map Number:** 0  
**CEAP Status:**

**Project Description**

The program is intended to improve and protect the many riparian corridors that pass through the city. Improvements include pedestrian/bicycle paths, drainage and flood control structures, and preservation and enhancement of natural features. A portion of the capital funding for this program was shifted to needed maintenance of existing system beginning in 2002. See Greenways CIP/Budget section. Project funding is ongoing. This represents the Lottery Fund contribution to the program.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals  
Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit  
Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

CEAP's are completed for all significant greenways projects and are reviewed by appropriate boards. See Greenway CIP for more detailed information.

**Relationship with Other Departments**

The Greenways program requires coordinating with Transportation, Open Space, Flood Utility, Planning and Parks Departments.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$651,600

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total  
 Funding Total (\$651,600)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Lottery Fund	\$150,000	\$125,400	\$125,400	\$125,400	\$125,400	\$0	\$0
<b>Total Funding Plan</b>	<b>\$651,600</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:

**Additional Annual O&M Description:**

no additional - funding is for the program, specific projects are outlined in the Greenways CIP



**Project Name:** Urban Forest Management Plan

**Project at a Glance**

<b>Project Type:</b>	Capital Planning Studies	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Parks and Recreation Department has recognized a need to develop a comprehensive plan to provide specific management direction through policies that will balance the long-term sustainability of the urban forest with the outcomes of the community's sustainability framework. The U.S. Forest Service estimates there are over 656,000 trees within the City of Boulder with a combined value of \$1.2 billion. The department's Forestry division currently manages over 38,000 trees within parks and streetscapes throughout the community. Due to ongoing threats and constraints to the health and viability of the urban forest, this long-range management plan will allow the City to more effectively and efficiently manage the forest based upon the goals of the community and relevant city plans. This management plan will include a complete inventory of the City's urban forest, current and recommended management practices, opportunities and constraints, partnerships and implementation strategies. In 2014, initial planning and management strategies will be developed in conjunction with the Emerald Ash Borer response that will help inform the planning scheduled for 2015.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Consistent with Master Plans</li> <li><input checked="" type="checkbox"/> Achieves Community Sustainability goals</li> <li><input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance</li> <li><input type="checkbox"/> Maintains and enhances city's business systems</li> <li><input type="checkbox"/> Provides capacity and flexibility in long term planning</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sustains or improves existing assets</li> <li><input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit</li> <li><input checked="" type="checkbox"/> Fund includes sufficient reserves</li> <li><input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

The community will be engaged throughout the process to learn about the benefits of the urban forest, provide input relative to priorities and implementation as well as review all deliverables throughout the process.

**Relationship with Other Departments**

All city departments will be engaged in the process as necessary.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$120,000
Acquisition	
Construction	

**Total Project Cost** \$120,000

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$120,000
Funding Total	(\$120,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Parks & Recreation .25 Cent Sales Tax Fund	\$0	\$120,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<span style="border: 1px solid black; padding: 2px;">\$120,000</span>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

There are no capital or maintenance costs associated with the management planning study. The plan will outline various funding implications and scenarios that will include O&M. These costs would be included in any future CIP project as an outcome of the plan.



**Project Name:** Violet Park

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	North Boulder
<b>Department:</b>	Parks & Recreation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	3
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	

**Project Description**

Violet Park is an undeveloped neighborhood park located along Violet Avenue east of Broadway in North Boulder. The park was acquired several years ago to satisfy the level of service requirements for the City to meet the needs of the growing community by providing park land and amenities to North Boulder. This project will allow funding for the initial development of the park in conjunction with the planned Fourmile Canyon Creek Greenway improvements through this reach of the creek. The Greenway Project will provide funding for the multi-use path while the park funding will allow for initial phase of development of the park. By combining the projects, the City will realize an economy of scale with both projects developing concurrently. Funding for ongoing Operations and Maintenance costs has not yet been identified. It is anticipated that this will be identified prior to completion of the project in 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>✓ Consistent with Master Plans</li> <li>✓ Achieves Community Sustainability goals</li> <li>✓ Includes sufficient funding for operation and maintenance                             <ul style="list-style-type: none"> <li>Maintains and enhances city's business systems</li> <li>Provides capacity and flexibility in long term planning</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>✓ Sustains or improves existing assets                             <ul style="list-style-type: none"> <li>Maximizes efficiency and demonstrates positive cost/benefit</li> <li>Fund includes sufficient reserves</li> </ul> </li> <li>✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency</li> </ul> |
|---|---|

**Public Process Status, Issues**

A formal CEAP process will be initiated in late 2013 that will engage all staff and community members located within the area of the proposed improvements.

**Relationship with Other Departments**

The project will engage Public Works and Planning and Development Services.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$30,000
Acquisition	
Construction	\$470,000
<b>Total Project Cost</b>	<b>\$500,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$500,000
Funding Total	(\$500,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Permanent Parks & Recreation Fund	\$0	\$0	\$0	\$0	\$0	\$500,000	\$0
<b>Total Funding Plan</b>	<b>\$500,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$2,529 **Funding Source:** Existing Parks O&M funding - .25 Cent Sales Tax Fund

**Additional Annual O&M Description:**

This cost is based upon the required O&M budget for the proposed development that will occur.

[This page is intentionally blank.]

## Funding Overview

The Police Department is funded by the General Fund. Currently there is no specific capital funding source for General Fund departments and capital needs are addressed on a case by case basis, as funds are available. Strategies for addressing unfunded capital needs are being developed (see Appendix B) and will be presented to council in the coming months.

Potential sources of funding for the capital projects noted below include each of the following or any combination of:

- an increase in sales and use tax
- an increase in property tax mill levy
- bond funding
- use of existing operating funding to build a capital fund or pool of money available for capital projects.

Past capital improvement funding has been provided through grant funding. Typical grants received by the Police Department are funded at the Federal level, usually through the U.S. Department of Justice, and are awarded once a year. The Police department currently receives the Justice Assistance Grant (JAG) that is used to fund equipment purchases. The JAG grant is based on crime statistics and has been decreasing in value in the last few years. The average amount awarded is approximately \$23,000.

Another source of funding for capital projects is the use of Asset Forfeiture funds. These funds are from seized assets that were used during the commission of crimes.

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects citywide. CIB funding is indicated by the following symbol: 

## Accomplishments and Highlights

Projects Completed in 2014:

- In-Car Video System: purchase of a server to increase the storage capacity for the in-car video system. The in-car video system project will be completed by December of 2014 and the system installed for use in the patrol vehicles.



#### Projects Expected for Completion in 2015:

- Replacement of the Records Management System (RMS): a replacement RMS will be purchased with funds from the Asset Forfeiture Fund. The acquisition of a new RMS is a priority project as the current RMS runs on Windows XP, an outdated operating system.

#### Projects Starting in 2015, but Not Completed:

None

#### Highlights of 2016–2020 Projects:

None

### Relationship to Guiding Principles

#### CIP Guiding Principles:

The Department's recently adopted Master Plan serves as the guide to priority capital funding for the Police Department. Capital projects seek to create efficiency and leverage outside funding sources such as grants.

#### Prioritization:

The Police Department is working together with IT, FAM and Finance to analyze technology, facility and equipment replacement needs, as well as emerging technology needs and solutions. The results of this analysis will help prioritize funding.

#### Projects not in a Master Plan:

None

### New Projects

The RMS was not in the previous CIP but the ability to use the Asset Forfeiture funds for this purchase allowed for the project to be included in the CIP for 2015.

### Operation and Maintenance Impacts

None

### Deferred, Eliminated, or Changed Projects

None

### Unfunded Projects and Emerging Needs

In the future, the Boulder Police Department (BPD) will incorporate new initiatives into the planning and budget processes as city resources allow. Examples include: upgrading technology in order to improve response times and increase efficiency; and expanding the Public Safety



Building to better accommodate staffing and technology needs. Specific, high priority unfunded projects include:

- **Public Safety Building Expansion and Renovation:** Construct a 9,700 expansion for Police functions with additional parking for 30 to 50 spaces in a parking garage, along with associated renovations to the existing facility. Estimated cost \$7.9 million.
- **City-wide Radio Infrastructure:** Over the next 5 years, much of the city's radio infrastructure will need to be replaced due both to age and new unfunded narrow-banding mandates expected from the Federal Communications Commission (FCC). This will include the need for new infrastructure as well as new radios, and radio pack sets for all departments using the radio system. Estimated cost \$2 million.
- **Gold Elite Radio Consoles:** The new expected narrowing banding mandates of the FCC will make this type of system necessary in the Police/Fire Communications Center. Estimated cost \$1.5 million.
- **Body Cameras:** New technology is becoming standard for departments in protecting both the officers and the community that they serve. Estimated cost \$72,000.

Table 12-1: 2015-2020 Funding Summary By Department

**POLICE**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
Records Management System	\$ 950,000	\$ 850,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 950,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ 950,000</b>	<b>\$ 850,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 950,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 950,000</b>	<b>\$ 850,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 950,000</b>	<b>\$ -</b>	<b>\$ -</b>

[This page is intentionally blank.]



**Project Name:** Records Management System

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** Police  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** Crossroads  
**BVCPArea:** Area I  
**Map Number:**  
**CEAP Status:**

**Project Description**

The Records Management System (RMS) is an important tool to more efficiently use the current technology to document crime, analyze crime trends, and determine appropriate police response. The acquisition of a new RMS is a priority project since the current RMS runs on Windows XP, an outdated operating system. The department has received approval from the U.S. Department of Justice to use up to \$950,000 of Asset Forfeiture Funds to purchase a new RMS.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The new RMS will be put out to the appropriate public process to bid.

**Relationship with Other Departments**

N/A

**Change from Past CIP**

Newly identified.

**Estimated Total Cost**

**Project Cost**

Planning  
 Acquisition \$950,000  
 Construction

**Total Project Cost \$950,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total \$950,000  
 Funding Total (\$950,000)

**Total Unfunded \$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Asset Forfeiture Fund	\$0	\$850,000	\$100,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$950,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$100,000 **Funding Source:** General Fund

**Additional Annual O&M Description:**

This would be for the maintenance agreement and future replacement of the RMS.

## **Funding Overview**

Investment in Transportation infrastructure is occurring through five separate funds listed below. An update to the Transportation Master Plan is underway and anticipated to be completed in 2014. The plan update will influence projects and guide funding in future years Capital Improvements Programs (CIP's).

### **Airport Fund**

The Airport Fund accounts for the operations of the city-owned municipal airport and supports airport investment. It is supported primarily by lease revenue and entitlement funds from the Federal Aviation Administration (FAA).

### **Transportation Fund**

The Transportation Fund accounts for construction, operation and maintenance of all major thoroughfares, local streets, bikeways, walkways and other transportation systems. Funding for city transportation projects comes from several different sources: 0.60% dedicated sales tax, Highway Users Tax, County Road and Bridge funds, State Highway Maintenance and Landscape Funds, and Moving Ahead for Progress in the 21<sup>st</sup> Century Act (MAP-21) federal. In November of 2013, Boulder voters passed two tax initiatives that increase the transportation fund by .15% dedicated sales tax annually for the next 16 years. This additional tax will be used to fund deferred transportation maintenance and some key multi-modal improvements. This is the first year to incorporate the additional funding into the CIP budget process.

### **Transportation Development Fund**

The Transportation Development Fund accounts for development fees to be utilized for the construction of transportation capital improvements related to new development and growth. Funding for the Transportation Development Fund is provided primarily through the transportation excise tax (TET) revenues. The TET was instituted in the 1980s to fund transportation improvements related to growth and is paid by new commercial and residential development.

### **Boulder Junction Improvement Fund**

The Boulder Junction Improvement Fund was created in 2011 for the Boulder Junction Key Public Improvements. Funding is provided from development related revenues generated in the Boulder Junction Area that will be reinvested into Key Public Improvements in this area. Transportation Excise and Transportation and General Fund Construction Use Taxes collected from development



in the area will be used on these improvements in addition to other money budgeted in the Transportation CIP. Other department funding sources will also be used for these projects.

### Capital Bond Fund

Additionally, funding from the Capital Improvement Bond (CIB) Fund supports a number of projects managed by Transportation. CIB funding is indicated by the following symbol: 

### 2013 Flood Impact

Benefitting from the Greenways system, built in partnership with the flood utility, and state and federal grants, the transportation system had limited damage during the 2013 flood. The Transportation operating reserve, 2011 capital bond proceeds for maintenance and repair, and increased investment in ongoing maintenance allowed for immediate response and eventual repair to flood-damaged infrastructure. However, since flood repair and recovery became the top repair and reconstruct priority, other repair projects at the top of the list were deferred. There is a cascading impact as those prior priority projects are moved to 2015 and then 2015 projects to 2016 and so on. As the CIP evolves over time, Transportation will continue to seek partnerships to invest in resilient infrastructure. An upcoming opportunity is the Denver Regional Council of Governments (DRCOG) Transportation Improvements Program (TIP) federal funding award process. As in past award cycles, if the city successfully applies for grants that benefit flood mitigation, projects will then be incorporated in the 2016 - 2021 CIP.

### Accomplishments and Highlights

The projects in the capital improvements program are selected and developed to implement TMP priorities. The TMP prioritized a system of multimodal corridors in the city for strategic investment and completion. The term multimodal corridor has now been replaced with “complete street.” Complete Streets not only includes the street itself but also facilities for the associated ¼ mile travel shed on either side.



#### Projects to be Completed in 2014

-  28<sup>th</sup> Street Multi-Use Path: on the west side of 14th Street Transit Center Improvements 28<sup>th</sup> Street from Arapahoe to Mapleton.
-  Arapahoe Reconstruction: from Folsom to 15<sup>th</sup> Street .
-  Junction Place Bridge over Goose Creek: (landscaping likely Spring 2015) .
- Transit Stop Improvements: CDOT FASTER funded – various locations throughout Boulder.
-  South Boulder Road and Manhattan Safe Routes to School project: including pedestrian improvements and a signal at the intersection.



-  Violet Intersection Realignment: at 28<sup>th</sup> Street.
-  Pearl Parkway Multi-way Boulevard: South side of Pearl – 30<sup>th</sup> east to the railroad tracks.

### Projects Expected for Completion in 2015:

- Pearl Parkway Multi-use Path TIP Project: North side of Pearl from 30<sup>th</sup> to 47<sup>th</sup> and Multi-way Boulevard on the north side of Pearl from 30<sup>th</sup> east to the railroad tracks.
- Diagonal – 28<sup>th</sup> Street to East of 30<sup>th</sup> Street: Reconstruction and multi-modal Improvements.
- Foothills/Valmont Operational Improvements.
- 28<sup>th</sup> Street Improvements from Pearl to Valmont: including the completion of multi-use paths on both sides of 28<sup>th</sup> Street and the third bus/bike/right-turning vehicle lane.
-  63<sup>rd</sup> Street widening: Between Arapahoe and Valmont where it has not already occurred including a structure replacement over the Leggett ditch.

### Projects Starting in 2015, but not Completed:

- 28<sup>th</sup> Street Multi-Use Path: Path and On-Street Bicycle Facility Improvements from Iris to Yarmouth.
- Baseline Underpass: East of Broadway and associated Multi-use Path and sidewalk Improvements.
- 29<sup>th</sup>/Valmont Safety Project: with Federal Hazard Elimination Grant – installation of a traffic signal and associated pedestrian improvements.

### Highlights of 2016–2020 Projects:

- 28<sup>th</sup> Street improvements: Baseline to Iris are planned to be fully funded by 2016.
- The next TIP application process will begin in late 2014 with funding starting in 2015.
- Consistent with Budget Guiding Principles and Priority Based Budgeting, a strategic funding line item in the CIP is for TIP local match and TMP Implementation, allowing flexibility as the TMP Update is completed later this year and to allow the leveraging of external funding.
- Transportation Corridor Scoping and Prioritization Projects were added for Canyon Boulevard, East Arapahoe, and 30<sup>th</sup>/Colorado timed to follow the city-wide coordinated conceptual planning processes in these areas.
- A Major Capital Reconstruction Project was added using the new transportation funds to allow flexibility for repair or reconstruction of major assets in the transportation system.
- Xcel has identified deficiencies in street light poles that need to be repaired and funding has been programmed to cover the projected costs.
- Airport CIP: Rehabilitation of Airport Parking Ramp in 2018 and the Airport Runway in 2018/2020. Funding is (95%, 2.5%, 2.5%) FAA, Colorado Department of Transportation (CDOT), and city respectively.



### Relationship to Guiding Principles and Prioritization

CIP Guiding Principles:

#### *Airport Fund*

The Airport Master Plan was updated in 2007, and its purpose is to assess current and future needs of the airport and provide a plan for facility and management improvements for the next 20 years. Recommended projects were identified and categorized into a Fiscally Constrained Plan, Action Plan, and a Vision Plan. Investments are focused on maintaining infrastructure and facilities. The Airport Fund is one of a handful of general aviation airports in Colorado which is not supported by a general fund. The airport is supported through user fees that leverage external funding from federal and state sources for improvements and capital maintenance. In addition to flight training and recreational use, the airport provides an emergency response role and fulfills the demand of the aviation business sector such as weather research and aviation-related design and manufacturing that would move outside of Boulder without the airport. The airport served as a key city facility in the September, 2013, flood emergency response effort.

#### *Transportation Funds*

All proposed projects in the 2015–2020 CIP are consistent with the TMP, last updated in 2008, and its budget guiding principles. An update to the TMP is currently underway. The citywide CIP Guiding Principles share many of the same traits as the TMP Budget Guiding Principles including focusing on maintenance and safety of the existing system, leveraging external funding and supporting community sustainability goals.

Transportation projects are important improvements for advancing the community sustainability framework goals, including environmental, social and economic objectives.

Maintenance of the existing system continues as the highest funding priority of the TMP and is reflected throughout the Transportation CIP and operating budget.

Transportation projects meet legal mandates such as ADA requirements for transportation improvements, and for purchasing and contract administration for projects receiving state/federal grants. Public safety is also a key focus of all transportation projects – designs meet local, state and federal standards and some funding is specifically for hazard eliminations like the 29<sup>th</sup>/Valmont project.

Leveraging funding is prevalent in the transportation CIP and extensive outside money is acquired using the limited city transportation dollars. Transportation also promotes community partnerships by working with other agencies such as RTD, Boulder County, CU and CDOT. Transportation coordinates projects with other departments including community planning and sustainability, water/wastewater/storm, parks and recreation, and open space to implement



improvements simultaneously to save construction and future maintenance costs. Transportation works to maintain adequate reserves and flexibility in the CIP and operating budgets to respond to emergencies and revenue fluctuations.

### Prioritization:

Aligning with the policies of the Transportation Master Plan is an important aspect of the Transportation Budget's guiding principles. The TMP calls for developing a balanced multimodal system that offers transportation choices. In City Council/Board budget processes, a list of Transportation budget guiding principles has been developed and updated to reflect the positive vote in November, 2013. It includes priorities and strategies that are used to develop the Transportation CIP. The newly revised principles are:

### Transportation Budget Guiding Principles – Credible, Clear and Consistent

- As top priority, maintain and operate the existing, valuable multi-modal system, including investments in safety.
- As additions are made to the system, address ongoing operation and maintenance needs.
- Continue to advance innovations in the design, construction, operation and maintenance of the system.
- Strategically enhance the Complete Street network, prioritizing projects that have maximum impact improving safety, mobility and efficiency.
- Advance corridor studies integrating the city's Sustainability Framework and Resiliency.
- Leverage external funds extending the ability of local dollars to implement city goals.
- Continuously strive for efficiency and effectiveness in how work is accomplished.
- Assure budget decisions are sustainable over time.
- Keep in mind the goal of identifying long-term, sustainable funding that is tied to vehicle use.

### Boulder Junction Improvement Fund

As a part of the adopted Transit Village Area Plan (TVAP) (September 2007, Revised August 2010) and related 2007 TVAP Implementation Plan, several Key Public Improvements were identified for public funding with the following key guiding principles:

- Identify mechanisms to fairly distribute public improvement benefits and burdens among all area property owners.
- Complete key connections and improvements needed ahead of new development.
- The publicly-funded Key Public Improvements should benefit the City as a whole or implement the vision and goals for the TVAP area.
- The proposed transportation connections in this area are consistent with the adopted TVAP Transportation Connections Plan and the TMP.



### Projects Not in Master Plans:

The TMP Update process is underway. The plan goes to City Council for acceptance in July 2014. Results from the update have been used to inform the 2015–2020 CIP.

### New Projects

Three new projects were added in the 2015 to 2017 CIP to fund Transportation Corridor Scoping and Prioritization work on Canyon Boulevard, East Arapahoe and at 30<sup>th</sup> Street/Colorado Avenue. The timing of these projects is intended to follow the citywide conceptual planning processes and will identify key projects and costs to be programmed in future CIP planning processes.

Another added project in the 2015 to 2020 CIP is for major capital reconstruction. Transportation has on-going maintenance programs in the operating budget such as overlay and sidewalk repair that take care of on-going maintenance needs. This item will complete work similar to the Capital Bond category titled “Replace substandard bridges, structures, signs and systems.” This funding could apply to major capital assets for any transportation mode. The first year of funding will include an assessment and prioritization of needs for items such as major roadways, bridge crossings and retaining walls.

The last new project is titled “Deficient Street Light Pole Replacement” and is to pay Xcel to repair identified structurally deficient street light poles that have rusted or been damaged in other ways.

### Operation and Maintenance Impacts

The City Council approved placing two tax initiatives on the November, 2013 ballot and both were passed by the Boulder voters. One tax is a bridge for six years, starting in 2014, and the other tax is for the following ten years, starting in 2020. The two together result in 0.15% tax increase annually that will fund deferred and newly identified transportation maintenance needs and some key public improvements.

The transportation division has been adding a significant portion of the transportation sales tax collection increases over the last few years into the maintenance and operations of the system and will now have a more significant boost with the tax passed last November.

### Deferred, Eliminated, or Changed Projects

#### Transportation Fund

- Funding amounts were increased annually in the Pedestrian Facilities Enhancement by \$50k and in the Bikeway Facilities Enhancements by \$100k.
- Funding for the 28th Street: Baseline to Iris improvements project was eliminated in 2017 as project funding completion is anticipated in 2016.
- Funding for the TIP Local Match/TMP Implementation was increased to an average of \$3.8 mil annually over the six year planning horizon. The TIP selection process is



anticipated to occur in 2014, and the TMP update is planned to be completed in 2014. This money will be moved to specific projects as they are funded or identified.

### Transportation Development Fund

- Funding for the 28th Street: Baseline to Iris improvements project was eliminated in 2017 as project completion is anticipated in 2016.
- Added funding for TIP Local Match/TMP Implementation was added in anticipation of the outcome of TMP Implementation. This project includes \$1.75 Mil total in the 2015 to 2020 CIP.

### Boulder Junction Improvement Fund

The Boulder Junction Improvement Fund CIP continues to be refined to best coordinate timing with private developments and to respond to other unanticipated coordination issues. The Boulder Junction Improvement Fund CIP reflects minor changes compared to the 2014–2019 CIP. Funding for development coordination in the out years of 2018 and 2019 was deleted anticipating that Phase I improvements will be complete. If future needs are identified funding will be added through subsequent CIP process.

## Unfunded Projects and Emerging Needs

### Unfunded Projects

Funding Required for Unfunded Improvements:

The unfunded projects list in the Transportation Fund is informed by the TMP update currently in process and area/corridor planning processes including next phase Civic Area planning, Envision East Arapahoe and 30<sup>th</sup> Street/Colorado Avenue planning. The transportation project needs identified in the plans are currently unfunded. Planning and design efforts would help inform future capital bond initiatives and potential leveraged funding opportunities, such as through competitive TIP or state grant opportunities. Also, Boulder Junction implementation continues to have additional transportation connections needs that are not currently funded beyond the first phase of high priority Key Public Improvements in the Phase 1 area.

Quiet zone implementation to allow for quieter railroad crossings continues to come up as a community desire and is not currently funded. The current evaluation identifies approximately \$5M in capital improvements needed for the city's railroad crossings to be Quiet Zone compliant.

Evaluating the bigger picture transportation unfunded improvements, the 2014 TMP will establish updated funding at three levels —Current Funding, Action Plan, and Vision Plan – through 2035.

### Emerging Need: Corridor /Area Planning

As noted above, in areas of change such as Civic Area, East Arapahoe and CU Boulder's East campus, capital improvements will likely need funding in the future.



### **Advisory Board Action**

On June 9, 2014, the Transportation Advisory Board voted 5-0 to recommend approval of the proposed 2015-2020 Transportation Fund, Transportation Development Fund and Boulder Junction Improvement Capital Improvement Programs.

[This page is intentionally blank.]

Table 13-1: 2015-2020 Funding Summary By Department

**PUBLIC WORKS - TRANSPORTATION**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
28th St (Baseline to Iris)	\$ -	\$ 860,000	\$ 860,000	\$ -	\$ -	\$ -	\$ -	\$ 1,720,000	\$ -	\$ -
28th St (Baseline to Iris) II	-	470,000	470,000	-	-	-	-	940,000	-	-
Boulder Junction - Junction Pl Enhancements (Goose Creek to Bluff)	877,000	477,000	-	-	-	-	-	477,000	400,000	-
Miscellaneous Development Coordination	-	50,000	50,000	50,000	50,000	50,000	50,000	300,000	-	-
Signal Maintenance and Upgrade	-	-	-	-	200,000	-	-	200,000	200,000	-
<b>Subtotal</b>	<b>\$ 877,000</b>	<b>\$ 1,857,000</b>	<b>\$ 1,380,000</b>	<b>\$ 50,000</b>	<b>\$ 250,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 3,637,000</b>	<b>\$ 600,000</b>	<b>\$ -</b>
<b>Capital Maintenance</b>										
Deficient Street Light Pole Replacement	\$ 1,280,823	\$ 321,000	\$ 265,000	\$ 265,000	\$ -	\$ 121,000	\$ 121,000	1,093,000	\$ 187,823	\$ -
Major Capital Reconstruction	-	800,000	800,000	800,000	800,000	800,000	800,000	4,800,000	-	-
Pedestrian Facilities - Repair, Replacement, ADA	-	629,000	629,000	629,000	629,000	629,000	629,000	3,774,000	-	-
<b>Subtotal</b>	<b>\$ 1,280,823</b>	<b>\$ 1,750,000</b>	<b>\$ 1,694,000</b>	<b>\$ 1,694,000</b>	<b>\$ 1,429,000</b>	<b>\$ 1,550,000</b>	<b>\$ 1,550,000</b>	<b>\$ 9,667,000</b>	<b>\$ 187,823</b>	<b>\$ -</b>
<b>Capital Planning Studies</b>										
Transportation Corridor Scoping and Prioritization - Canyon Blvd	\$ 200,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	100,000	\$ 100,000	\$ -
Transportation Corridor Scoping and Prioritization - East Arapahoe	200,000	100,000	100,000	-	-	-	-	200,000	-	-
Transportation Corridor Scoping and Prioritization - 30th/Colorado	200,000	-	100,000	100,000	-	-	-	200,000	-	-
<b>Subtotal</b>	<b>\$ 600,000</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>
<b>New Capital Project</b>										
Bikeway Facilities - Enhancements	\$ -	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 225,000	\$ 1,350,000	\$ -	\$ -
Boulder Junction - Development Coordination	825,000	75,000	75,000	75,000	-	-	-	225,000	450,000	150,000
Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments	-	125,000	125,000	125,000	125,000	125,000	125,000	750,000	-	-
TIP Local Match/TMP Implementation	-	3,300,000	3,300,000	4,200,000	4,000,000	4,000,000	4,000,000	22,800,000	-	-
Boulder Junction - Traffic Signal at Bluff Street and 30th Street	228,000	-	-	228,000	-	-	-	228,000	-	-
Boulder Junction - Traffic Signal at Junction Place and Valmont	304,000	-	-	304,000	-	-	-	304,000	-	-
TIP Local Match/TMP Implementation II	-	-	-	470,000	300,000	400,000	400,000	1,570,000	-	-
<b>Subtotal</b>	<b>\$ 1,357,000</b>	<b>\$ 3,725,000</b>	<b>\$ 3,725,000</b>	<b>\$ 5,627,000</b>	<b>\$ 4,650,000</b>	<b>\$ 4,750,000</b>	<b>\$ 4,750,000</b>	<b>\$ 27,227,000</b>	<b>\$ 450,000</b>	<b>\$ 150,000</b>

Table 13-1: 2015-2020 Funding Summary By Department (Cont.)

**PUBLIC WORKS - TRANSPORTATION (Cont.)**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Transfer</b>										
Tributary Greenways Program - Transportation - Transfer	\$ -	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 585,000	\$ 97,500	\$ -
<b>Subtotal</b>	\$ -	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 585,000	\$ 97,500	\$ -
<b>Total</b>	\$ 4,114,823	\$ 7,629,500	\$ 7,096,500	\$ 7,568,500	\$ 6,426,500	\$ 6,447,500	\$ 6,447,500	\$ 41,616,000	\$ 1,435,323	\$ 150,000

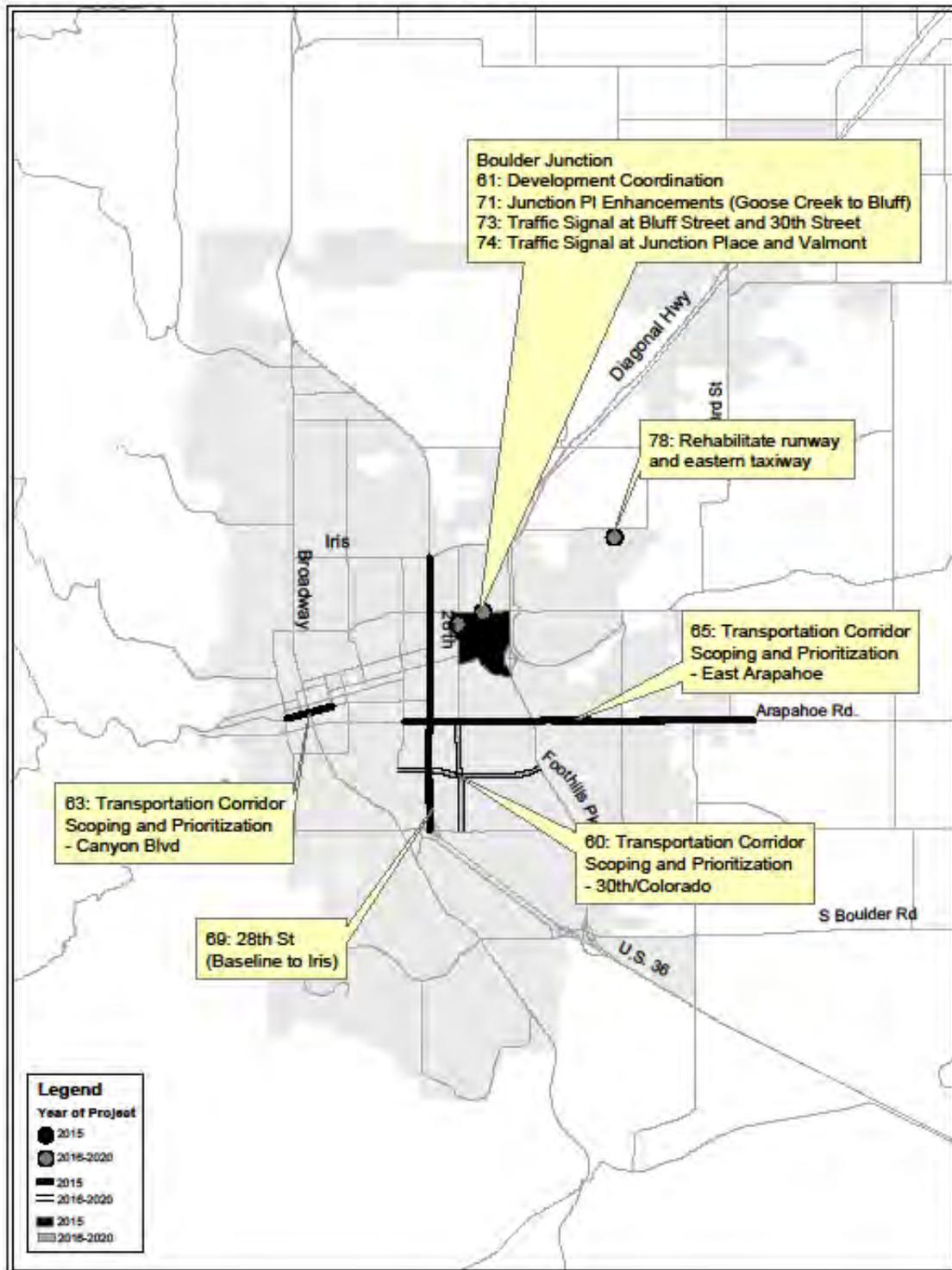
**PUBLIC WORKS - MUNICIPAL AIRPORT**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Maintenance</b>										
Rehabilitate Runway and Eastern Taxiway	\$ 4,935,000	\$ -	\$ -	\$ -	\$ 435,000	\$ -	\$ 4,500,000	\$ 4,935,000	\$ -	\$ -
<b>Subtotal</b>	\$ 4,935,000	\$ -	\$ -	\$ -	\$ 435,000	\$ -	\$ 4,500,000	\$ 4,935,000	\$ -	\$ -
<b>Total</b>	\$ 4,935,000	\$ -	\$ -	\$ -	\$ 435,000	\$ -	\$ 4,500,000	\$ 4,935,000	\$ -	\$ -



### City of Boulder Capital Improvement Projects, 2015 - 2020

#### PW / Transportation & Municipal Airport



[This page is intentionally blank.]



**Project Name:** 28th St (Baseline to Iris)

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	781743	<b>Map Number:</b>	69
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	Completed 2001 - Baseline to Arapahoe / 2002 - Pearl to Iris

**Project Description**

The 28th Street (Baseline to Iris) funding is for the implementation of complete street elements for all modes of transportation on the 28th Street corridor between Baseline and Iris. Recommended improvements include: urban design, landscaping, and streetscape elements throughout the corridor; transit amenities including queue jumps, transit stops and site furniture; bicycle and pedestrian facilities including constructing multi-use paths; adding raised crossings at free right turn lanes; and traffic efficiency elements including adding left turn lanes at various intersections and widening the Boulder Creek Bridge.

Portions of the 28th Street corridor implementation completed to date include all of the south section from Arapahoe to Baseline. Portions of the north section completed from Pearl Street to Iris Avenue, include the intersections at Iris Ave., Pearl St. and Valmont - south to Bluff Street along with the installation of pedestrian crossings and bike/bus/right turning vehicle lanes in the vicinity of the intersections. The last 28th Street project completed was the installation of a multi-use path on the west side of 28th from Baseline to Colorado that was constructed in 2012-2013.

Implementation of a balanced multi-modal corridor, or "complete streets," transportation system is a focus area in the Transportation Master Plan and 28th Street from Iris to Arapahoe has been identified as the highest ranking transportation corridor, and 28th from Arapahoe to Baseline is the third highest ranking corridor in the city. The planning study and the CEAP for the southern section-Baseline to Arapahoe and the northern section-Pearl to Iris were completed and received City Council approval. Funding for the northern and southern sections began pre 1997 and will end in 2016 and has been combined with federal funding, the Transportation Development Fund, and Capital Bond funding. The improvements between Arapahoe and Pearl are based on the TMP and the BVRC connections plan. The project meets the sustainability goals by providing alternative travel choices that when used reduce congestion and green house gas emissions and reduces the demand for transportation related energy sources.

The next project phase planned in the 28th Street corridor is the "28th Street - Transit and multi-use path Improvements Project" between Arapahoe and Valmont beginning/completing construction in 2014/2015. This project includes the replacement of the existing sidewalks along 28th Street with a 10' wide concrete multi-use path (plus associated scope) along the west side between Arapahoe and Valmont, and along the east side of 28th between Pearl and Valmont. In addition, 28th Street will be widened in areas between Spruce and Valmont in order to complete missing sections of the additional bus/bike/right turning vehicle lanes in both directions between Pearl and Valmont. The multi-use paths between Arapahoe and Mapleton on both sides of 28th Street will generally be funded with the Capital Bond - Transportation New Multi-Use Path Connections funding, and some smaller portion of the 28th street transportation and transportation development funding.

One last phase of construction will remain after the work described above that includes the transportation facilities between Valmont and (north of) Glenwood. This work includes construction of the 3rd lane (bus/bike/right turning vehicle) and multi-use path (both sides). This work would be completed in 2016/2017.

Funding needs for all remaining work divided by the funding source is described below:

Transportation Fund - Project #781743

- 1. Planning: \$100,000
- 2. Acquisition: \$400,000
- 3. Construction: \$3,000,000

Transportation Development Fund - Project #711019

- 1. Planning: \$100,000
- 2. Acquisition: \$400,000
- 3. Construction: \$1,900,000

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The CEAP for the southern section - Baseline to Arapahoe and the northern section - Pearl to Iris- have been approved by City Council. Any of the middle section improvements from Arapahoe to Pearl, will implement the Council approved BVRC Connections Plan.

**Relationship with Other Departments**

This project requires coordination with the Utility Division for utility upgrades and modifications, with RTD for construction impacts to existing routes and on transit improvements, CDOT on design proposals because 28th Street is a State Highway, CU for any work along their frontage. Arts Commission on the solicitation and review of public art incorporated into the project, the Planning Department for proposed development projects and land use modifications as possible, and the Real Estate Division for the purchase of easements and ROW needed for the project.

**Change from Past CIP**

Funding for 2017 was eliminated as the project can be completed with 2016 funds.



*28th St (Baseline to Iris) continued*

Estimated Total Cost		Unfunded Amount	
<b>Project Cost</b>		<b>Unfunded Amount</b>	
Planning		Project Cost Total	\$0
Acquisition		Funding Total	(\$2,660,000)
Construction			
<b>Total Project Cost</b>	<b>\$0</b>	<b>Total Unfunded</b>	<b>\$0</b>

Capital Funding Plan							
Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$0	\$860,000	\$860,000	\$0	\$0	\$0	\$0
Transportation Development Fund	\$0	\$470,000	\$470,000	\$0	\$0	\$0	\$0
<b>Subtotal All Funds</b>	<b>\$0</b>	<b>\$1,330,000</b>	<b>\$1,330,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total Funding Plan</b>	<b>\$2,660,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Transportation Fund Operating Budget

**Additional Annual O&M Description:**

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.



**Project Name:** Bikeway Facilities - Enhancements

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Areas I & II
<b>Project Number:</b>	781692	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Bikeway facilities funding is an ongoing program for smaller bikeway facilities. The construction of bike facilities is included in almost all transportation CIP projects. This program provides additional funding for smaller bikeway projects and/or projects not specifically associated with other capital projects.

Projects constructed with this funding meet the Transportation Master Plan goal of developing an integrated multimodal transportation system. Projects will be consistent with the current TMP Bicycle System Plan and the projects are prioritized yearly. This program also allows for construction of opportunistic improvements and construction of other identified bike projects. Types of projects include providing missing links and enhanced crossings.

In 2015 and 2016, funds will be spent on completing the southern confluence path connection along Valmont Road to Indian Road and for path connections to the east of the Valmont Bikepark. In further out years, funds will be spent on completing multi-use path connections in the confluence area as well as identifying and constructing improvements to improve connectivity to the future US 36 Bikeway.

Annual funding was increased starting in 2014 due to the passage of the 2013 Transportation Tax.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The Public Process for each project will vary. Some projects, depending on the complexity, may require a CEAP. A public meeting was held for the Confluence path projects as part of the CDOT wetlands mitigation in this same general area.

**Relationship with Other Departments**

This program is coordinated with other departments depending on the particular project. Currently projects are being coordinated with the Greenways program when a project is within the Greenways system, and the Open Space Dept. and the Parks Dept if a project is on or adjacent to Open Space property or Parks property. Additionally, the confluence path project will be coordinated with CDOT's US36 Wetlands Mitigation Project in this same area, the Open Space/Mountain Parks Department because the proposed paths are on Open Space property and Boulder County on permitting including flood permitting as the project is outside of the city limits but on city property.

**Change from Past CIP**

Annual funding was increased by \$100k due to the 2013 Transportation Tax

**Estimated Total Cost**

<b>Project Cost</b>	<b>Unfunded Amount</b>
Planning	Project Cost Total
Acquisition	Funding Total
Construction	(\$1,350,000)
<b>Total Project Cost</b>	<b>Total Unfunded</b>
	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$0	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000
<b>Total Funding Plan</b>		<b>\$1,350,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Transportation Fund Operating Budget

**Additional Annual O&M Description:**

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.



**Project Name:** Boulder Junction - Development Coordination

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Crossroads
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	751001	<b>Map Number:</b>	61
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project began in 2011, and funding is for ongoing planning and development coordination within the Phase 1 area of Boulder Junction, bounded by 30th Street, BNSF Railroad, Valmont Road and the Irrigation Ditch/Boulder Slough (south of Pearl Parkway). Over the life of this project, work includes base mapping for the Phase 1 Boulder Junction area, conceptual design and cost estimate updates for identified and unidentified possible Key Public Improvements, engineering support, Pearl electrical undergrounding costs and coordination, and coordination of various public improvements with area private development projects.

This project is necessary as part of implementation and coordination associated with the city-funded Key Public Improvements as part of the Transit Village Area Plan (TVAP) - Implementation Plan, and related private development in the Boulder Junction area. The transportation connections as part of the TVAP Connections Plan, are also included in the Transportation Master Plan, and support both plan goals of creating a fine-grained, multimodal network of transportation connections that support a pedestrian friendly environment, create safe and convenient access to transit, and support necessary connections for area redevelopment.

In 2014, project funding was spent on additional surveying/ROW support, engineering review support and public project coordination tasks for 3100 Pearl, Depot Square and remaining Steel Yards developments, BNSF Railroad coordination support, private utility coordination and other tasks. In 2015, \$75,000 is anticipated to be spent on on-going surveying, engineering and design support in coordination with private development including: Depot Square, Nickel Flats (Steel Yards), remaining Steel Yards and other private developments, supporting public infrastructure project design, and BNSF Railroad coordination with multiple projects. The private development projects have uncertain schedules, making it difficult to anticipate development coordination support needs.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

**Relationship with Other Departments**

The TVAP was a coordinated multi-department design effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

**Change from Past CIP**

This funding ends in 2017 and may be added if needed.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$825,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total \$825,000
- Funding Total (\$675,000)

**Total Unfunded** \$150,000

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Boulder Junction Improvement Fund	\$450,000	\$75,000	\$75,000	\$75,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<span style="border: 1px solid black; padding: 2px;">\$675,000</span>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** N/A

**Additional Annual O&M Description:**

N/A



**Project Name:** Boulder Junction - Junction PI Enhancements (Goose Creek to Bluff)

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Crossroads
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	751xxx	<b>Map Number:</b>	71
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project includes the "enhancement" of this section of Junction Place, over and above the standard "collector" classification roadway required of future adjoining private developments. The exact nature of the enhancement is still being defined, but is anticipated to include items such as: bike facilities, and possible enhancements to 1) street and sidewalk surface materials, 2) landscaping, 3) streetscape elements and other possible items.

This project was included in the list of Key Public Improvements for public funding as part of the Transit Village Area Plan (TVAP) - Implementation Plan, and is also a part of the TVAP Connections Plan and the Transportation Master Plan. This project supports both TVAP and TMP plan goals of creating a fine-grained, multimodal network of transportation connections that supports a pedestrian friendly environment, creates safe and convenient access to transit, and supports necessary connections for area redevelopment. In particular, Junction Place is viewed as a central spine to the Phase 1 Boulder Junction area, linking 32nd Street north to Pearl Parkway, and continuing north ultimately to Valmont Road.

Costs for these enhancements will be negotiated during private development reviews. Implementation is anticipated to be coordinated with reconstruction of this section of Junction Place, with some cost participation anticipated by private development and applicable "enhancement" costs paid by the City.

For funding purposes, this project design is assumed to start in 2014, with construction anticipated in 2015. The timing of project design and construction is dependent on redevelopment of adjoining properties (such as remaining Steel Yards lots, Air Gas, Sutherlands, etc) and other factors. The timing of private development projects is uncertain, which creates some uncertainties in this public project implementation.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

**Relationship with Other Departments**

The TVAP was a coordinated multi-department design effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

**Change from Past CIP**

Portion of funding advanced to 2014 via ATB in Dec 2013

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$88,000
Acquisition	
Construction	\$889,000
<b>Total Project Cost</b>	<b>\$977,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$977,000
Funding Total	(\$977,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Boulder Junction Improvement Fund	\$400,000	\$577,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$977,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Transportation Fund Operating Budget

**Additional Annual O&M Description:**

Project may result in minimal incremental increases in on-going maintenance costs.



**Project Name:** Boulder Junction - Traffic Signal at Bluff Street and 30th Street

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Crossroads
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	751xxx	<b>Map Number:</b>	73
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project includes fronting the design/construction cost of a new traffic signal at the intersection of Bluff Street and 30th Street.

This project was included in the list of Key Public Improvements for public funding as part of the Transit Village Area Plan (TVAP) - Implementation Plan, and is also a part of the TVAP Connections Plan and the Transportation Master Plan. This project supports both TVAP and TMP plan goals of creating a fine-grained, multimodal network of transportation connections that supports a pedestrian friendly environment, creates safe and convenient access to transit, and supports necessary connections for area redevelopment. In particular, this new traffic signal will facilitate transit and traffic movements, provide safe pedestrian crossings, and facilitate connections from surrounding neighborhoods and future redevelopment projects.

Implementation is anticipated to be coordinated with adjoining private redevelopment. Reimbursement for a portion of these City funds may be obtained from private area redevelopment.

This project is anticipated to occur in 2017, in conjunction with future private redevelopment near this intersection. The timing of private development projects is uncertain, which creates some uncertainties in this public project implementation.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

**Relationship with Other Departments**

The TVAP was a coordinated multi-department design effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$25,000
Acquisition	
Construction	\$203,000
<b>Total Project Cost</b>	<b>\$228,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$228,000
Funding Total	(\$228,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Boulder Junction Improvement Fund	\$0	\$0	\$0	\$228,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$228,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Transportation Fund Operating Budget

**Additional Annual O&M Description:**

Project may result in minimal incremental increases in on-going maintenance costs.



**Project Name:** Boulder Junction - Traffic Signal at Junction Place and Valmont

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Crossroads
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	751xxx	<b>Map Number:</b>	74
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project includes fronting the design/construction cost of a new traffic signal at the intersection of proposed Junction Place and Valmont Road.

This project was included in the list of Key Public Improvements for public funding as part of the Transit Village Area Plan (TVAP) - Implementation Plan, and is also a part of the TVAP Connections Plan and the Transportation Master Plan. This project supports both TVAP and TMP plan goals of creating a fine-grained, multimodal network of transportation connections that supports a pedestrian friendly environment, creates safe and convenient access to transit, and supports necessary connections for area redevelopment. In particular, this new traffic signal will facilitate transit and traffic movements, provide safe pedestrian crossings, and facilitate connections from surrounding neighborhoods and future redevelopment projects.

Implementation is anticipated to be coordinated with adjoining private redevelopment. Reimbursement for a portion of these City funds may be obtained from private area redevelopment.

This project is anticipated to occur in 2017, in conjunction with future private redevelopment near this intersection. The timing of private development projects is uncertain, which creates some uncertainties in this public project implementation.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The development and adoption of the TVAP was the result of a 3-year planning process that included design charrettes, open houses and numerous meetings with property owners in the area. The plan was approved by Planning Board and City Council.

**Relationship with Other Departments**

The TVAP was a coordinated multi-department design effort between Planning, Public Works (Transportation and Utilities), Housing and Human Services, Parks and Recreation, Downtown & University Hill Management Divisions & Parking Services and other departments. These departments continue to collaborate on private development coordination issues in Boulder Junction, implementation of Key Public Improvements and coordination with RTD on the development of a bus transfer facility (as part of Depot Square development), possible other future Transit-Oriented Development and future Northwest Rail facilities.

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$25,000
Acquisition	
Construction	\$279,000
<b>Total Project Cost</b>	<b>\$304,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$304,000
Funding Total	(\$304,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Boulder Junction Improvement Fund	\$0	\$0	\$0	\$304,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$304,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Transportation Fund Operating Budget

**Additional Annual O&M Description:**

Project may result in minimal incremental increases in on-going maintenance costs.



**Project Name:** Deficient Street Light Pole Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	781xxx	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	n/a

**Project Description**

This project will provide funds to be paid to Xcel Energy for the replacement of Xcel Energy street light poles that are structurally deficient due to corrosion or physical impact damage. On site inspection by Xcel has revealed 155 poles require immediate replacement, 54 poles require replacement within one year, 217 poles require replacement within two to three years, and 99 poles require replacement within five to six years. Based on historic cost data, Xcel estimates the average replacement cost to be \$2,439 per pole. This street light repair project has been mandated by Xcel Energy and is consistent with their practice in communities throughout the front range at this time.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input type="checkbox"/> Consistent with Master Plans   | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input type="checkbox"/> Achieves Community Sustainability goals                              | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input type="checkbox"/> Fund includes sufficient reserves  |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |   |

**Public Process Status, Issues**

No public process performed or anticipated. Xcel will do the work and the light poles will be removed and replaced in their existing location.

**Relationship with Other Departments**

n/a

**Change from Past CIP**

This item has been added to the 2015 CIP - some funding was required in 2014.

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	
Acquisition	
Construction	\$1,280,823
<b>Total Project Cost</b>	<b>\$1,280,823</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$1,280,823
Funding Total	(\$1,280,823)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$187,823	\$321,000	\$265,000	\$265,000	\$0	\$121,000	\$121,000
<b>Total Funding Plan</b>	<b>\$1,280,823</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

The funding will repair existing street light poles lessening on-going operating costs.



**Project Name:** Major Capital Reconstruction

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	781xxx	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Major Capital Reconstruction project provides funding to repair existing transportation assets that are close to or at the end of their useful life. Repairs could be for roadway, bikeway, pedestrian or transit capital assets. This funding is a result of the transportation tax that passed in November of 2013. The majority of the tax dollars were for maintenance of our exist transportation assets. This project will allow major assets to be replaced or repaired and the specific project identification process and prioritization will start with the initial funding year of 2015.

A portion of the 2015 budget, the first year of funding this category, will be used to evaluate and prioritize the various capital repairs such as major street reconstruction, bridge crossings and retaining walls. This item is similar to the 2011 capital bond category titled "Replace substandaard bridges, structures, signs and systems." This funding will provide the ability to complete the capital repairs that are not eligible for grant funding or to be used as leveraged funds for this type of project as opportunities arise.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

Project processes will be identified as the individual projects are identified. If assets are replaced in the same capacity as they exist today the public will be notified about the construction impacts. If there are substantive changes to the asset a public process will be identified and completed.

**Relationship with Other Departments**

Transportation will coordinate with the Utilities Department on upgrades, modifications or improvements to existing utilities as identified in each project, the Planning Department to coordinate with any adjacent planned development and other impacted departments and agencies depending on the location of the repairs such as Parks Dept., DUHMD, CU, or CDOT if the project exists on their property or adjacent to their property.

**Change from Past CIP**

This project has been added to the 2015 CIP and out years.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$4,800,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total (\$4,800,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$0	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000
<b>Total Funding Plan</b>	<b>\$4,800,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:

**Additional Annual O&M Description:**

This project will repair existing assets and will in turn reduce any maintenance costs related to the assets that are repaired.



**Project Name:** Miscellaneous Development Coordination

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	711004	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This ongoing funding is intended to construct infrastructure improvements in coordination with or prompted by potential private development. Throughout the year, situations arise where infrastructure improvements required in the vicinity of a proposed development should be made at the same time as the development, and for which a developer cannot be required to construct. Improvements that are typically included are bike and pedestrian, functional efficiency, safety, system preservation, and transit system improvements. This project is growth related because it addresses needs from new development. A major goal in the Transportation Master Plan is to create an integrated, multimodal system and one that is supportive of land use patterns.

In 2014 and 2015, the money will be used for issues that arise during the year that are small items required to be constructed as a result of development or to coordinate with a development project. The projects are not known at this time.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

Projects generally require coordination with adjacent neighborhoods and property owners.

**Relationship with Other Departments**

Close coordination with the Development Review work group and the Planning Department is required as this money is to fund improvements or connections adjacent to or required by development that is not the responsibility of the developer.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$300,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total (\$300,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Development Fund	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
<b>Total Funding Plan</b>	<b>\$300,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Transportation Fund Operating Budget

**Additional Annual O&M Description:**

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.



**Project Name:** Pedestrian Facilities - Repair, Replacement, ADA

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Areas I & II
<b>Project Number:</b>	781773	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This ongoing program allows for repair, replacement and construction of existing and new sidewalks, and construction of access ramps. Sidewalk repair priorities have been established in the Sidewalk Repair Program and yearly funding is spent accordingly. Compliance with ADA is resulting in additional expenditures for access ramps and driveway modifications.

This program meets the Transportation Master Plan goal of creating an integrated, multimodal transportation system, emphasizing the role of the pedestrian mode as the primary mode of travel as it is the beginning and end of every travel trip. The program also meets federal ADA requirements of working towards bringing sidewalks and access ramps up to the current federal standards. And, the TMP investment policies identify maintenance as the highest priority item to fund.

In 2014, \$629,000 will be spent on design, survey, project management, and construction for the 2014 Annual Sidewalk Repair Program in the downtown area. This area, generally between 9th Street and 20th Street from Arapahoe Road to Spruce Street, is expected to be complete this year. In 2015 the program will begin work in the area west of Broadway between Arapahoe Road and Baseline Road.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

A neighborhood meeting is held for the identified repair area owners in advance of the work starting and individual notices are mailed out yearly to the adjacent property owners.

**Relationship with Other Departments**

Coordination with the Parks Department - City Forester is required adjacent to city street trees to minimize impacts to the trees. Coordination with the city Utility Division regarding water meter location and relocation if possible. The work in the downtown area will be coordinated with DUHMD and the Parks Department because they maintain various elements in this area.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost**

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total (\$3,774,000)

**Total Unfunded**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$0	\$629,000	\$629,000	\$629,000	\$629,000	\$629,000	\$629,000
<b>Total Funding Plan</b>	<b>\$3,774,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

Adjacent property owners are generally responsible for sidewalk maint. This project does reduce some need to place temporary asphalt patches on damaged sidewalks.



**Project Name:** Pedestrian Facilities Enhancements-Missing Links, Crossing Treatments

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Areas I & II
<b>Project Number:</b>	781002	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Pedestrian Facilities budget is an ongoing funding program that includes the installation of missing sidewalk links and pedestrian crossing/safety treatments and potentially social paths and sidewalk widening improvements. The list of identified missing sidewalk links has been prioritized for construction. Crossing treatment improvements are prioritized citywide and include median refuge islands, crosswalk lighting, flashing signs, neck-downs, signing, lighting, and/or pedestrian signals.

This program meets the Transportation Master Plan goal of creating an integrated, multimodal transportation system emphasizing the role of the pedestrian mode as the primary mode of travel as it is the beginning and end of every travel trip.

Last year the program budget went towards a portion of the construction cost for the pedestrian crossing on Spine Rd at Gunpark Dr. and desing and construction of the Valmont Rd. path pedestrian bridge. In 2014, the money will be spent on pedestrian crossing location at Spine Road and Chapparral Court, Table Mesa and Yale, and Broadway and Poplar. This funding was increased by \$50k starting in 2014 due to the passage of the 2013 Transportation Tax.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

TAB approved the Proposed Prioritized list of Missing Sidewalk Links on May 10, 2004. TAB made a recommendation to support the use of the Pedestrian Crossing Treatment Installation Guidelines in 2005 and the document went to the City Council as information item in 2006. These guidelines were updated in 2012.

The Public Process for installing missing sidewalks links is on-going and may involve a process for one or more locations per year. Staff works with neighborhoods and adjacent property owners on individual improvements.

**Relationship with Other Departments**

Coordination with the Parks Department - City Forester - is required when the missing links are impacting existing street trees and the Utilities department to address any utility conflicts.

**Change from Past CIP**

Annual funding was increased by \$50k with the passage of the 2013 tax.

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$0

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total  
Funding Total (\$750,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000
<b>Total Funding Plan</b>	<b>\$750,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Transportation Fund Operating Budget

**Additional Annual O&M Description:**

Adjacent property owners are responsible for sidewalk maintenance by code. Crossing treatments have minimal maintenance requirements.



**Project Name:** Signal Maintenance and Upgrade

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	711778	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The Signal Maintenance and Upgrade project is an on-going program that is used for the installation of growth-related new traffic signals and signal upgrades. Budgeting as a capital project at \$200,000 every four years as opposed to budgeting one-quarter of this amount every year is consistent with the project implementation, as this is approximately the cost to signalize or upgrade one intersection.

The decision to install a new traffic signal is made on the basis of a signal warrant study, which uses data collected at the study location (peak period traffic volumes and delay, accident history) to determine if the benefits of a traffic signal at that location (potential for reduced side street delay during peak periods, increased pedestrian and cyclist access, potential for reduction in right-angle accidents) outweigh the downsides (increased main street delay, increased side street delay during off-peak periods, increased pedestrian and cyclist delay during off-peak periods, potential for increase in rear-end accidents). Locations in Boulder that have been identified as potential future signal locations are studied periodically. If there are multiple locations where new signals are desired, they are prioritized based on the magnitude of the identified benefit at each location.

Signalized intersections meet the Transportation Master Plan goals of helping to creating a fine-grained, multimodal network of transportation connections that support a bicycle and pedestrian friendly environment by providing better and safer access across busy streets at peak times.

This funding could also be used for growth related reconstruction of existing traffic signals, to provide operational benefits (such as adding double left-turns), or to address deficiencies (such as aging, corroded poles). The funding is currently available in 2014 and will be available again in 2018.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The public process associated with new traffic signal installations is determined by the location of the new signal and the availability of other alternatives to address the issues to be addressed by the signal installation.

**Relationship with Other Departments**

New traffic signal installations are coordinated with Xcel Energy, which provides power to operate traffic signals.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$400,000

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total
- Funding Total (\$400,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Development Fund	\$200,000	\$0	\$0	\$0	\$200,000	\$0	\$0
<b>Total Funding Plan</b>	<b>\$400,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Existing operating budgets

**Additional Annual O&M Description:**

If the funding is used to upgrade an existing signal the maintenance costs will remain the same or go down. If a new signal is installed the project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation Fund budget.



**Project Name:** TIP Local Match/TMP Implementation

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	Areas I & II
<b>Project Number:</b>	781052	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	As appropriate

**Project Description**

This ongoing funding is for the implementation of projects identified in the Transportation Master Plan that will be prioritized in the current update to the master plan. This money will also be used as local match to leverage potential federal and state funding for projects submitted in future year's DRCOG TIP submittal process (the next process starts in 2014 with funding available in 2015) or other funding match opportunities, developing conceptual plans for projects prior to submitting for possible external funding, or for smaller high priority projects identified through the TMP process. If the city succeeds in acquiring external project funds this money will become the city's funding match. And, in this case, new projects will be created in the CIP that will include the external funding and the city's match.

This budget item allows flexibility to be ready to implement high priority projects that are identified through the TMP update planned to be completed in 2014. The highest priority projects identified in the TMP that best meet the DRCOG scoring criteria are submitted to compete for federal funding. Prior to finalizing the list of projects to submit for DRCOG TIP funding, staff will work with TAB to identify the best projects and then submit the project list to council for their review prior to submitting for potential funding.

The annual funding amounts in this category have increased from last year's CIP to allow flexibility and to be ready to implement projects defined in the TMP update that will be completed in 2014.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

Public Process, CEAP and design to be determined in relationship to specific projects.

**Relationship with Other Departments**

As the projects are identified and refined necessary interdepartmental coordination will be identified.

**Change from Past CIP**

More funding has been added to this CIP line item

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost** \$0

**Unfunded Amount**

**Unfunded Amount**

- Project Cost Total \$0
- Funding Total (\$24,370,000)

**Total Unfunded** \$0

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$0	\$3,300,000	\$3,300,000	\$4,200,000	\$4,000,000	\$4,000,000	\$4,000,000
Transportation Development Fund	\$0	\$0	\$0	\$470,000	\$300,000	\$400,000	\$400,000
<b>Subtotal All Funds</b>	<b>\$0</b>	<b>\$3,300,000</b>	<b>\$3,300,000</b>	<b>\$4,670,000</b>	<b>\$4,300,000</b>	<b>\$4,400,000</b>	<b>\$4,400,000</b>
<b>Total Funding Plan</b>	<b><span style="border: 1px solid black; padding: 2px;">\$24,370,000</span></b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** **Funding Source:**

**Additional Annual O&M Description:**

N/A



**Project Name:** Transportation Corridor Scoping and Prioritization - 30th/Colorado

**Project at a Glance**

<b>Project Type:</b>	Capital Planning Studies	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	
<b>Project Number:</b>	781xxx	<b>Map Number:</b>	60
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The city is anticipated to begin a multi-departmental 30th Street and Colorado Avenue Corridor planning effort in 2015. This planning process is expected to be begin in 2015 and is anticipated to conceptually identify some key transportation projects. As a result of the city wide process that will result on 30th Street and on Colorado Avenue, transportation anticipates this funding in 2016 and 2017 will be used to further study and complete a next level of planning to identify the individual projects and the associated costs and priorities so that the projects can be included and implemented in later capital project funding.

**Relationship to Guiding Principles**

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit  |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves  |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |  |

**Public Process Status, Issues**

This process will be identified to coordinate with the city wide planning process for these corridors that is anticipated to be completed in 2015.

**Relationship with Other Departments**

Close coordination with Community Planning and Sustainability, Public Works - Utilities, and the Parks Department in order to have a comprehensive and coordinated plan between the departments and agencies for the development of the corridors. The University of Colorado/Boulder is a major property owner on both of these corridors and the proposed build out of the campus will require a connected transportation system between the various housing, classroom and office spaces that will exist in this area.

**Change from Past CIP**

This project has been added to the CIP in 2015

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$200,000
Acquisition	
Construction	
<b>Total Project Cost</b>	<b>\$200,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$200,000
Funding Total	(\$200,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$200,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**  
 N/A



**Project Name:** Transportation Corridor Scoping and Prioritization - Canyon Blvd

**Project at a Glance**

<b>Project Type:</b>	Capital Planning Studies	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	
<b>Project Number:</b>	781xxx	<b>Map Number:</b>	63
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The city wide Civic Area Master Planning process completed in 2013 identified Canyon Boulevard and connections to the north and south between the civic area municipal campus and the downtown commercial areas as key transportation corridors. As a result of the city wide process that identified these corridors, transportation will further study and complete a next level of planning and coordination with agency partners such as CDOT, RTD and Via to identify the individual projects and the associated costs and priorities so that the projects can be included and implemented in later capital project funding.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

This process will be coordinated with the city wide planning effort in the Civic Area that is the next step as a result of the 2013 Civic Area master Planning process. The proximity of Canyon to Boulder Creek and the potential for impacting the floodway is a major issue for these projects.

**Relationship with Other Departments**

This process will be coordinated and administed jointly with Community Planning and Sustainability, Public Works - Utilities, Parks Department and the Downtown and University Hill Management District. This process will also be coordinated with outside agency partners such as CDOT as Canyon is a CDOT owned facility, RTD and Via to accommodate the existing routes, transit stop ammenities and access to the existing 14th Street Transit station.

**Change from Past CIP**

This project has been added to the 2015 CIP

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$200,000
Acquisition	
Construction	
<b>Total Project Cost</b>	<b>\$200,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$200,000
Funding Total	(\$200,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$200,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**  
 N/A



**Project Name:** Transportation Corridor Scoping and Prioritization - East Arapahoe

**Project at a Glance**

<b>Project Type:</b>	Capital Planning Studies	<b>Subcommunity:</b>	East Boulder
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	
<b>Project Number:</b>	781xxx	<b>Map Number:</b>	65
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The city is beginning a multi-departmental Envision East Arapahoe planning effort on Arapahoe between Folsom and the eastern city limits. This initial planning process is expected to be completed in 2014 and is anticipated to conceptually identify some key transportation projects. As a result of the city wide process that will result on East Arapahoe, transportation anticipates this funding in 2015 and 2016 will be used to further study and complete a next level of planning and coordination with agency partners such as CDOT, RTD, and CU to identify the individual projects and the associated costs and priorities so that the projects can be included and implemented in later capital project funding.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

Public process will be identified after the initial city wide planning process is completed in 2014. There are several floodways that cross Arapahoe within these limits. This is a CDOT facility and any improvements will need to be reviewed and approved by CDOT staff. A portion of Arapahoe is adjacent to CU property from 30th to the east.

**Relationship with Other Departments**

Close coordination with Community Planning and Sustainability to better integrate land use and transportation, Public Works - Utilities on replacement, modifications and upgrades to the city's utility systems, the Parks Department along the golf course frontage, CDOT for design review and approval because Arapahoe is a CDOT owned facility, University of Colorado - Boulder along CU's frontage and to enhance connections to the planned redevelopment on CU's East Campus, and RTD on current transit facilities, future planned bus rapid transit and associated stop design and amenities.

**Change from Past CIP**

This project has been added to the 2015 CIP

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$200,000
Acquisition	
Construction	
<b>Total Project Cost</b>	<b>\$200,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$200,000
Funding Total	(\$200,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$200,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**  
 N/A



**Project Name:** Tributary Greenways Program - Transportation - Transfer

**Project at a Glance**

<b>Project Type:</b>	Transfer	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Transportation	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	781630	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

The funding will provide transportation's contribution to the overall greenways program. Funding will be opportunistic and prioritized with the other funding in the Greenways CIP. These funds will be combined with funding from the Stormwater and Flood Management Utility Fund and the Lottery Fund. This project is for an ongoing funding program.

A portion of the capital funding for this program was shifted to needed maintenance of existing system beginning in 2002. In 2012 the money for maintenance was moved to an operating budget. See Greenways CIP/Budget section.

**Relationship to Guiding Principles**

- |  |  |
|--|--|
| <input type="checkbox"/> Consistent with Master Plans                              | <input type="checkbox"/> Sustains or improves existing assets  |
| <input type="checkbox"/> Achieves Community Sustainability goals                   | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input type="checkbox"/> Includes sufficient funding for operation and maintenance | <input type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems            | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning   |  |

**Public Process Status, Issues**

CEAP's are completed for all significant greenways projects and are reviewed by appropriate boards. See Greenway CIP for more detailed information.

**Relationship with Other Departments**

The Greenways program requires coordinating with Transportation, Open Space, Flood Utility, Planning and Parks Departments.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

- Planning
- Acquisition
- Construction

**Total Project Cost**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total  
Funding Total (\$682,500)

**Total Unfunded**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Transportation Fund	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500
<b>Total Funding Plan</b>	<b>\$682,500</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Transportation/Utilities operating or Urban Drain.

**Additional Annual O&M Description:**

Project may result in minimal incremental increases in on-going maintenance costs which will be programmed in the Transportation or Utilities Fund budget.



**Project Name:** Rehabilitate runway and eastern taxiway

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	East Boulder
<b>Department:</b>	PW/ Municipal Airport	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	771XXX	<b>Map Number:</b>	78
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

Project includes subgrade stabilization, re-paving, and re-painting of Runway 8/26 and eastern half of Taxiway Alpha. Design will begin in 2018 and construction is scheduled to begin in 2020.

**Relationship to Guiding Principles**

- ✓ Consistent with Master Plans
  - Achieves Community Sustainability goals
- ✓ Includes sufficient funding for operation and maintenance
- ✓ Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- ✓ Sustains or improves existing assets
  - Maximizes efficiency and demonstrates positive cost/benefit
  - Fund includes sufficient reserves
- ✓ Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

This project was included in the Airport Master Plan Update process, which included open house meetings and mailings to airport neighbors, and was approved by City Council in 2007.

**Relationship with Other Departments**

None at this time.

**Change from Past CIP**

New project.

**Estimated Total Cost**

**Project Cost**

Planning	\$435,000
Acquisition	
Construction	\$4,500,000
<b>Total Project Cost</b>	<b>\$4,935,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$4,935,000
Funding Total	(\$4,935,000)

<b>Total Unfunded</b>	<b>\$0</b>
-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Airport Fund	\$0	\$0	\$0	\$0	\$435,000	\$0	\$4,500,000
<b>Total Funding Plan</b>	<b>\$4,935,000</b>						

**Additional Annual Operations and Maintenance**

<b>Additional Annual O&amp;M:</b>	\$50,000	<b>Funding Source:</b>	FAA: \$3,791,500 CDOT: \$860,638 Airport Fund: \$282,861
-----------------------------------	----------	------------------------	--

**Additional Annual O&M Description:**

By 2020, pavement will have exceeded 20-year life span and require approximately \$50,000 of maintenance a year. Maintenance, such as crack fill and seal coat, will be come less and less effective. Without rehabilitation, asphalt could be unsafe for aircraft landing and taking off from the airport.

## Funding Overview

Each of the city's three utility funds is established as a separate enterprise fund designed to finance and account for each utility's facilities and services. Funding for the Utilities Division capital improvement program is derived primarily from monthly utility fees.

Any revenue increases for 2015 will be reviewed by the Water Resources Advisory Board and considered by City Council. Approval of revenue increases that are different from what is listed above may impact the 2015–2020 CIP.

In addition to the monthly utility fees, significant revenue sources include Plant Investment Fees (PIFs) from new development or redevelopment and hydroelectric sales. Sales from monthly utility fees can be variable and reflect the overall growth of the service area and yearly weather fluctuations.

Other revenue sources include reimbursements from the Urban Drainage & Flood Control District (UDFCD), this is for stormwater/ flood management projects), Colorado Department of Transportation (CDOT) state and federal grants, and revolving loans from the Colorado Department of Public Health and Environment (none anticipated at this time). These revenues are project specific and are highly variable depending on the external agency's funding situation and priorities. Currently, the following projects are anticipated to qualify for such revenues:

- Pre-Flood Acquisition
- Wonderland Creek
- Fourmile Canyon Creek
- South Boulder Creek

If the above mentioned funds are insufficient, projects may be funded by issuing revenue bonds with the debt service financed by general utility charges. For the years 2015–2020, it is anticipated that new bonds will be issued for the following projects:

### Water:

- Betasso Water Treatment Plant Improvements (\$12 million in 2016) to fund improvements to maintain compliance with federal Safe Drinking Water Act regulations.
- Southern Water Supply Pipeline II (Carter Lake Pipeline) (\$33.9 million in 2018).



- Barker Dam Improvements (\$8 million in 2019) to fund repairs to the outlet works.

Wastewater:

- Sanitary Sewer Rehabilitation (\$10 million in 2015) to replace and rehabilitate sections of the reinforced concrete pipe (RCP) sewer.
- WWTF Improvements (\$18.5 million in 2020) to fund phosphorus treatment to meet Regulation 85 requirements.

Stormwater and Flood Management:

- Wonderland Creek Flood Mitigation project (\$16 million in 2015) .
- South Boulder Creek Flood Mitigation (\$10 million in 2018) to fund improvements designed to mitigate flood hazards in the South Boulder Creek West Valley area.

The following table summarizes the debt obligations of the utilities, the year the debt is retired and the average annual debt payment. Items shown in italics are projects that are anticipated to be funded by issuing bonds.



**Table 14–1 Existing and Planned Infrastructure Financed by Debt**

Utility	Projects	Year Debt is Retired	Approximate Annual Debt Payment
Water	Boulder Reservoir WTF Improvements	2016	\$858,000
	Multiple Projects including Silver Lake Pipeline, Barker Purchase	2019	\$2,522,000
	Lakewood Pipeline	2021	\$2,066,000
	<i>Betasso WTP Imp. (2016)</i>	<i>2036</i>	<i>\$1,140,000</i>
	<i>Carter Lake Pipeline (2018)</i>	<i>2038</i>	<i>\$3,224,000</i>
	<i>Barker Dam Improvements (2019)</i>	<i>2039</i>	<i>\$763,000</i>
	Wastewater	<i>Sanitary Sewer Rehabilitation (2015)</i>	<i>2035</i>
WWTF Liquid and Solid Stream Improvements		2025	\$3,500,000
WWTF Headworks/Digester/UV Improvements		2030	\$674,000
<i>WWTP Improvements - Reg 85 (2020)</i>		2040	\$1,757,500
Storm/Flood	Multiple projects including Goose Creek Flood Mitigation	2018	\$385,000
	<i>Wonderland Creek Flood Mitigation (2015)</i>	2035	<i>\$1,520,000</i>
	<i>South Boulder Creek Flood Mitigation (2017)</i>	<i>2037</i>	<i>950,000</i>

The water utility also pays a portion of the Northern Colorado Water Conservancy District's debt related to the Windy Gap project. This debt will be retired in 2017 and Boulder's annual debt payment is approximately \$1,650,000.

The utility continues to maintain a high credit rating, most recently Aa1 from Moody's and AAA from Standard and Poor's. This is due to sound financial practices, one of the most important of which is maintaining sufficient reserves.

The 2015–2020 capital improvement program (CIP) was developed using the following proposed 2014 revenue increases from monthly utility fees. These rate increases should generate sufficient revenue to fund a reasonable amount of mitigation projects in response to the September 2013



flood disaster as discussed below. Additional city staff needed to implement the proposed additional capital improvement project work will be needed and funding for these positions is anticipated in the proposed rate increases.

- Water – 5%
- Wastewater – 25%
- Stormwater/ Flood Management – 71%

Anticipated FEMA reimbursement as discussed below has been considered in formulating the proposed rate increases.

### 2013 Flood Impact

The 2013 flood disaster significantly affected the city’s utilities system and finances. City utility funds have been used to fund recovery efforts and the following is a summary of current and anticipated expenses:

Water Utility	\$ 1.5 million
Wastewater Utility	\$ 1.5 million
Stormwater and Flood Management Utility	\$ 6.0 million

In some instances, funding previously saved up for future, identified CIP projects was used to cover flood recovery. As a result, additional or different sources of funding will be needed to complete those projects. For example, in order to fund the flood disaster recovery costs for the Stormwater and Flood Management Utility, cash originally appropriated for the Wonderland Creek project is being used. As a result, the Utilities Division will be issuing bonds for the Wonderland Creek project next year.

The flood disaster also highlighted certain vulnerabilities in the city’s utility infrastructure. Although the water system infrastructure performed admirably and sustained minimal damage, the sanitary sewer, storm water and major drainageway systems were overwhelmed by rain of up to 18 inches in a relatively short period of time and resulting runoff, groundwater infiltration and inflow to the city’s open channel and pipe conveyance systems. Although the rain event is estimated to have a recurrence interval of 1000 years, the city’s major drainageways only experienced flood flows characterized by a recurrence interval of 25–50 years.

City staff is in the process of identifying and quantifying the disaster impacts and have developed a proposed CIP budget that contemplates additional work to make the infrastructure more robust and mitigate future rainfall/runoff event impacts.

New projects have been identified or funding increased for mitigation projects including:

Wastewater Utility:

- September 2013 Flood Disaster Recovery



- Collection System Monitoring
- Condition Assessment Program
- Sanitary Sewer Rehabilitation
- Sanitary Sewer Manhole Rehabilitation
- IBM Pump Station
- Digester Complex Improvements

### Stormwater and Flood Management Utility:

- September 2013 Flood Disaster Recovery
- South Boulder Creek Flood Mitigation
- Skunk Creek Flood Mitigation
- Twomile Canyon Creek Flood Mitigation
- Bluebell Canyon Creek – King’s Gulch Flood Mitigation
- Fourmile Canyon Creek Flood Mitigation
- Bear Canyon Creek Flood Mitigation
- Gregory Canyon Creek Flood Mitigation
- Boulder Creek Flood Mitigation
- Wonderland Creek Flood Mitigation
- Local Drainage Improvements
- Storm Sewer Rehabilitation
- Transportation Coordination

## Accomplishments And Highlights

### Water Utility:

In addition to the September 2013 flood disaster there have been several developments over the past year that should be considered in formulating the Water Utility CIP. These developments are discussed and addressed below under the Highlights of 2016–2020 Projects section.

### Projects to be Completed in 2014:

- Phase 1 of the Sunshine Pipeline inspection and replacement
- Kossler Reservoir Concrete Facing Rehabilitation
- Barker Gravity Pipeline Repairs – ongoing repairs in order of priority and availability.
- Barker Dam Outlet Gate Test – ongoing plan to test / inspect gates as reservoir level allows
- Green Lake No. 2 Assessment and Rehabilitation Study
- Albion Dam Assessment and Rehabilitation Alternatives Study
- Replacement of approximately 20,000 feet of water main
- Mixing improvements at Devil’s Thumb storage tank
- Gunbarrel Tank painting and structural steel rehabilitation
- Boulder Reservoir Water Treatment Facility Post Filter Mixing Improvements



- Betasso Residuals Study and Filter Analysis
- Betasso and Boulder Reservoir treated water effluent meter replacements

### Projects Expected for Completion in 2015:

- Barker Dam Outlet Investigation for Gate No.10 – due to leakage and concerns with the age of this 1905 gate, a bulkhead design and installation plan will be completed with the assistance of a consulting engineer specializing in high pressure bulkheads.
- Silver Lake Dam Outlet Inspection – as part of dam safety requirements, the outlet system will be fully inspected and the condition assessment will be documented.
- Goose Lake Dam Outlet Inspection – as part of dam safety requirements, the outlet system will be fully inspected and the condition assessment will be documented.
- Silver Lake Hydroelectric Rehabilitation – the bypass valve is scheduled for rehabilitation due to operational damage.
- Betasso capital improvement project design.
- Replacement of approximately 20,000 feet of water main.

### Projects Starting in 2015, but not Completed:

- Lakewood Pipeline Internal Inspection – assessment of corrosion potential and general condition of steel pipe, welds and interior lining.
- Watershed Improvements – Various aging valves in the upper watershed will be replaced with more modern systems.
- Barker Gravity Pipeline Maintenance Repairs – ongoing repairs to the gravity system will continue on a priority and/or emergency basis.
- 18” Transmission line replacement from the mouth of Boulder Canyon to Chautauqua Reservoir.
- Kohler Storage Tank roof replacement.
- Phase 2 of the Sunshine Pipeline inspection and replacement.
- Devil’s Thumb Storage Tank site, security and water quality improvements.

### Highlights of 2016–2020 Projects:

- Annual funding for waterline replacement of \$3,000,000 (2014 dollars) is proposed in order to provide for the replacement of additional waterlines located in residential streets scheduled to be reconstructed by the city’s Transportation Division. Completing water main replacement just ahead of street resurfacing results in significant savings since pavement restoration costs can be eliminated. Coordination also reduces the risk that the useful life of a newly reconstructed street will be impacted by a main break.
- It is recommended that the city continue its annual maintenance program of the Barker Gravity Line by prioritizing pipeline repair projects based on the most critical needs, providing enough earthen cover to protect the pipeline, and anchoring the pipeline in areas prone to landslides. Replacement or lining of pipe sections are options that may be used in different parts of the pipeline.



- It is recommended that capital funding be allocated in the 2015–2016 time period to address issues related to aging equipment and underperforming treatment processes at the Betasso Water Treatment Facility.
- Funding for the final design of the Carter Lake Pipeline is identified in 2017 and construction is identified in 2018. Project costs were updated with a new construction estimate provided by Northern in 2014 and forecasted costs have increased. The pipeline is considered the best long-term solution to water quality, operational and security vulnerability issues related to drawing water directly from either the Boulder Feeder Canal or Boulder Reservoir. The recent disaster event revealed that the pipeline could also mitigate the potential for future problems in delivering water from the Boulder Reservoir WTP during future disaster events. The pipeline would potentially provide an opportunity to develop a new hydroelectric facility and funding for construction of this facility is allocated in 2020.
- The Barker Dam outlet facilities are over 100-years old and in need of significant rehabilitation. As a result of the successful testing and operation of the existing outlet gates as described above, funding has been delayed by 1 year for final design (now 2018) and construction (now 2019) of the rehabilitation project. The outlet facilities would also provide an opportunity to develop a new hydroelectric facility and funding for construction of this facility is allocated in 2020.
- The 2014–2015 assessment of rehabilitation options for Green Lake No. 2 and Albion dams will confirm the path forward on re-establishing operational levels of storage on these dams. Construction funding of these projects is not shown in the 2015–2020 CIP at this time because of the unknown results of the assessment and cost/benefit of associated improvements.
- Funding for treated water transmission infrastructure includes both assessment and replacement of critical pressure zone 3 pipes. During the summer of 2013 several transmission mains experienced failures that were repaired and revealed the need to replace certain pipe segments sooner than anticipated.

### Wastewater Utility:

Impacts of the September 2013 flood disaster are the primary drivers of changes being considered in the Wastewater Utility CIP.

### Projects to be Completed in 2014:

- IBM Lift Station Design Improvements
- Nitrogen Upgrades Design Improvements
- Wastewater collection system condition assessment and debris removal
- Wastewater Collection System Master Plan (WWCSMP) Update – to integrate flood inundation data from the 2013 flood event.
- Wastewater Interceptor Evaluation
- Inflow & Infiltration (I&I) Evaluation



Projects Expected for Completion in 2015:

- IBM Lift Station Construction
- WWTF Process Automation System (PAS recommendations implementation).

Projects Starting in 2015, but not Completed:

- Nitrogen Upgrades Construction Improvements. The city received a new discharge permit for the 75th Street wastewater treatment facility (WWTF) with an effective date of May 1, 2011. The City has begun a Nitrogen Upgrades design project that will be completed this year for submittal to CDPHE. This project will include improvements to meet new permit regulations for new total inorganic nitrogen (TIN) and daily maximum ammonia limits. This project's construction cost is estimated at \$4,000,000 and will be completed in 2016.
- Inflow & Infiltration (I&I) Evaluation project recommendations. Upon completion of the 2014 I&I Evaluation, Utilities staff will begin rehabilitation of the wastewater collection system to specifically address the inflow component of the I&I. These repairs will focus on single point large volume contributions to the system like illicit drain or pump connections.

Highlights of 2015–2019 Projects:

- Staff recommends a more robust wastewater collection system condition assessment program and has including preliminary funding in the 2015–2020 CIP. The condition assessment may reveal additional rehabilitation needs that are not fully anticipated in this preliminary budget.
- Increased funding for the annual Sanitary Sewer Rehabilitation project is being considered at a base rate of \$750,000 per year in 2014 dollars escalating at 4% annually. Increased funding for Sanitary Sewer Manhole Rehabilitation project is also being considered.
- New CDPHE regulations concerning nutrient criteria, specifically Regulation 85 and Regulation 31, were adopted by the Colorado Department of Public Health and Environment (CDPHE) in March 2012. The criteria will pose serious treatment challenges for the WWTF and will have significant financial impacts. City staff has estimated approximately \$18.5 million of funding in 2020 to address the phosphorus treatment improvements required to address Regulation 85. Regulation 31 contains much more stringent provisions and funding for this regulation is identified in the 20–year CIP with \$11 million in 2029.
- The Process Automation System (PAS) Strategic Plan, which was completed in 2013, included approximately \$6,000,000 in instrumentation and controls (I&C) recommendations to be completed at the WWTF. Funding for these improvements is estimated at \$600,000 per year (escalated at 4% annually) for the next 10 years.
- Additional funding for construction of overflow improvements at the IBM lift station necessary to meet the CDPHE permit regulations will be completed in 2015.



- A system-wide inflow and infiltration (I&I) study of the wastewater collection system will be completed in 2014. The purpose of this evaluation is to quantify the rainfall induced I&I component entering the wastewater collection system. This I&I study was scheduled this year to take advantage of historically high groundwater conditions. Because of the saturated soil conditions, a give rainfall event will likely result in a more significant I&I system response. The data collected from this evaluation will be used to advise system repairs to minimize I&I component entering the collection system during rainfall events.
- Wastewater Interceptor Replacement/Rehabilitation – Bond Project. Utilities staff has identified the need for a \$10,000,000 bond in the 2015–2020 CIP to fund improvements to the City’s largest sanitary sewer interceptor. In 2014, city staff hired Redzone Robotics to perform a condition assessment of 31,000 feet of the interceptor. Initial data received from the contractor indicate that sections of the interceptor have experienced significant internal corrosion and that the sewer is at risk of failure and potential collapse. Utilities staff will begin an evaluation in 2014 to identify the project’s magnitude and schedule.
- Digester Complex Improvements. The secondary digester cover has failed on numerous occasions. This failure occurs when moisture gets inside the roof and causes an imbalance in the roof structure, and the cover tips rendering it inoperable. When this occurs, the facility must be taken off-line, emptied, cleaned and repaired. Utilities staff has identified a project to replace the secondary digester cover in the 2015–2020 CIP. The estimated construction cost is \$2,000,000, with \$200,000 identified for the design in 2019.
- A comprehensive list of WWTF rehabilitation projects has been identified from the Wastewater Utility Fund Asset Management tool, and included in the 20-year CIP based on staff input, engineering studies and the asset management database. For the current 6-year CIP, funding for the rehabilitation projects has been allocated to various WWTF components as shown in the detailed CIP list.

### Stormwater and Flood Management:

Based on analysis of the September 2013 event, the majority of the disaster impacts were related to the event exceeding the capacity of existing stormwater infrastructure. Similar to the Wastewater Utility, the impacts of the September 2013 flood disaster are the primary drivers of changes being considered in the Stormwater and Flood Management Utility CIP. More information will be made available in the near future and staff plans to refine these preliminary recommendations based on this information during this budget process.

Besides the significant direct flood recovery costs that have been and will need to be absorbed, significant additional mitigation project work has been identified as discussed and addressed below under the Highlights of 2016–2020 Projects section. Mitigation of flood hazards along



major drainageways has been the major thrust of the city's Stormwater and Flood Management utility for the last three decades. Boulder has by far the largest number of flood insurance policies (required on all federally backed mortgages) and largest insured value. City of Boulder residents and businesses pay nearly \$3M in total annual flood insurance premiums. Investment in flood mitigation serves to reduce the associated risks and costs.

Projects to be Completed in 2014:

- A flood mitigation planning study for Boulder Creek, Gregory Creek and Bear Canyon Creek is currently being initiated in conjunction with the Urban Drainage and Flood Control District. This plan will identify feasible flood improvement projects along these drainageways.
- It is anticipated that the following mapping studies will be completed in 2014: Skunk Creek, Bluebell Creek and King's Gulch, Boulder Slough and the Bear Canyon Creek/Harrison Avenue levee.
- The South Boulder Creek Flood Mitigation Plan is anticipated to be completed in 2014.
- Utilities will complete a brief update to the 2007 Stormwater Master Plan (SMP) to integrate flood inundation data from the 2013 flood event.



Bear Canyon Creek during the flood. A flood mitigation planning study will be done here in 2014.

Projects Expected for Completion in 2015:

- Fourmile Canyon Creek at 19<sup>th</sup> Street is in preliminary design but was put on hold following the September 2013 flood event. It is anticipated that development of this project will continue in late 2014 with a CEAP completed in for the upstream reach in 2015.
- Flood mapping studies for Upper Goose and Twomile Canyon Creeks are anticipated to be completed in 2015.

Projects Starting in 2015, but not Completed:

- Utilities staff will begin the design of stormwater drainage improvements along Pearl Street between 17<sup>th</sup> Street and 20<sup>th</sup> Street to help mitigate flooding that occurs regularly in this area.
- Utilities staff will begin the design of stormwater drainage improvements in the Upper Goose Creek drainage area in anticipation of the Upper Goose Creek Drainageway improvements identified in the 6-year CIP.
- Construction of the Wonderland Creek Foothills to 30<sup>th</sup> Greenways Improvement Project is anticipated to begin in 2015.
- Construction of the Wonderland Creek (28<sup>th</sup> Street) Diagonal to Winding Trail



Greenways Improvement Project is anticipated to begin in 2015.

- A flood mitigation plan was initiated in 2014 for Boulder Creek, Bear Canyon Creek and Gregory Canyon Creek and is anticipated to be completed 2015.

### Highlights of 2016–2020 Projects:

- Flood mitigation improvements in the near term focus on Wonderland and Fourmile Canyon Creeks. The Wonderland Creek Foothills to 30<sup>th</sup> Street project is proposed to implement flood mitigation measures along Wonderland Creek from just upstream of Iris Avenue to Foothills Parkway and extend the multi-use trail from Foothills Parkway to the intersection of Iris Avenue and 30<sup>th</sup> Street. This project will include a bicycle and pedestrian underpass under the Burlington Northern Railroad. The Wonderland Creek at 28<sup>th</sup> Street project (Diagonal to Winding Trail) is the next upstream reach and will also include flood mitigation and path improvements, including bicycle and pedestrian underpasses at 28<sup>th</sup> Street and Kalmia Avenue. Funding for the construction of these improvements is proposed to be bonded in 2015, based on the current total estimated cost assuming the additional \$2.9 million received through the Transportation Improvement Program (TIP). Funding originally budgeted for this project has been reprioritized to address immediate flood recovery expenses.
- Flood mitigation improvements along Fourmile Canyon Creek, 19<sup>th</sup> to 22<sup>nd</sup> Streets include 100 year flood mitigation at 19<sup>th</sup> Street, a multi-use path and an emergency access connection from 19<sup>th</sup> Street to Tamarack Avenue and a bicycle and pedestrian underpass at 19<sup>th</sup> Street. Funding is shown for additional improvements along Fourmile Canyon Creek between Upland and Violet in outlying years.
- Funding is shown in 2015 for design of flood mitigation improvements along South Boulder Creek, Bear Canyon Creek, Gregory Creek and Boulder Creek and will be based on the recommendations of the mitigation planning studies. Funding is shown for construction of these improvements starting in 2016, with bond money shown in 2018 for South Boulder Creek.
- Funding for design of flood mitigation capital improvements along Skunk, Bluebell, King's Gulch, Twomile and Upper Goose Creeks is shown starting in 2017 and will be based on the updated mapping and a mitigation planning effort.
- Funding for the design and construction of localized drainage improvements throughout the city. These improvements include storm water collection and conveyance facilities designed to convey the 2-year and 5-year storm events.

### Relationship To Guiding Principles And Prioritization

#### CIP Guiding Principles:

The proposed Utilities Division CIP is consistent with the CIP guiding principles in that 1) all projects have been identified and prioritized through Council accepted master plans 2) capital improvements are designed to achieve community sustainability goals, 3) funds to operate and



maintain the project or program have been identified, 4) adequate financial capacity and flexibility is available to respond to emerging, unanticipated needs (except for the WWTF permit issue identified below, 5) the maintenance and enhancement of city-wide business systems is captured elsewhere in the CIP, 6) projects sustain or improve maintenance of existing assets before investing in new assets, 7) project have been identified to meet legal mandates, maintain public safety and security, leverage external investments, promote community partnerships, reduce operating cost and improve efficiency, 8) capital projects have been screened through a cost/benefit analysis, 9) the CIP provides sufficient reserves to allow for a strong bond rating and the ability to address emergencies and natural disasters.

The projects identified in the 2015–2020 CIP are intended to implement these guiding principles and are consistent with the department master plans identified below.

In 2002 it was decided to develop an overarching master plan for each of the City's three utilities. More detailed plans have been developed for major functional areas. Recent master plans include recommendations for CIP projects over a 20-year time period. The project recommendations consider the prioritization listed below as well as information from the Utilities Division asset management system. This system includes replacement cost, useful life and condition rating which have been documented for each significant utility asset. This information informs the six-year CIP.

Current Utilities Division master plans include:

Water:

- Source Water Master Plan – 2009
- Treated Water Master Plan (TWMP) – 2011
- Water Utility Master Plan (WUMP) – 2011

Wastewater:

- Wastewater Collection System Master Plan – 2010
- Wastewater Utility Master Plan – 2010

Stormwater/ Flood Management:

- Stormwater Master Plan – 2007
- Comprehensive Flood and Stormwater (CFS) Master Plan – 2004

Prioritization:

The overall program and funding priorities are reflected in the timing of projects over the six-year CIP time period. In addition to master plan recommendations, the following factors were considered in determining the overall program and funding priorities:

Water and Wastewater:

- Reliability of water and wastewater collection, delivery and treatment
- Water quality and other environmental regulations



- Worker health and safety
- Opportunity to collaborate with other city projects, such as Transportation projects
- Opportunity to collaborate with other utility providers to leverage funds or obtain federal or state grants
- Potential for operation and maintenance cost savings
- Accommodating new growth and development

### Stormwater and Flood Management:

- Life safety (high hazard) mitigation
- Flood emergency response capability
- Critical facility (vulnerable population) hazard mitigation
- Property damage mitigation
- Collaboration with other Greenways Program Objectives
- Potential for operation and maintenance cost savings
- Accommodating new growth and development

Within current appropriations all projects proposed have sufficient funds for ongoing operations and maintenance, and 90% of the Water Utility and Wastewater Utility projects are focused on maintaining or improving existing assets. Other Water and Wastewater Utility projects are intended to construct facilities required to comply with new regulations. In the Stormwater and Flood Management Utility, the majority of the project funding is focused on life safety and critical facility hazard mitigation issues.

### Projects Not in Master Plans:

Most Utilities Division projects in the 2015–2020 CIP have been previously identified in associated master plans. However, several projects have been added based on information gleaned from the September 2013 flood disaster.

## **NEW PROJECTS**

The following new projects have been identified in the 6–year CIP:

### Water:

- Devil’s Thumb Storage Tank
- Sunshine Transmission Pipe
- Silver Lake Dam
- Goose Lake Dam
- Silver Lake Hydroelectric/PRV
- Water System Security/Quality Improvements

### Wastewater:

- WWTP Nutrient Management Grant



- Condition Assessment Program

Stormwater/ Flood Management:

- Twomile Canyon Creek Flood Mitigation
- Bluebell Canyon Creek – King’s Gulch Flood Mitigation
- Bear Canyon Creek Flood Mitigation
- Gregory Canyon Creek Flood Mitigation
- Boulder Creek Flood Mitigation
- Local Drainage Improvements

**Operations and Maintenance Impacts**

The majority of the utilities expenditures are for rehabilitating and improving the capital infrastructure either through the capital improvements program (cash financed) or through annual debt payments for revenue bonds that have been issued to fund capital improvements. The infrastructure is core in carrying out the utilities’ mission of delivering safe and reliable water to our customers, ensuring that water is available for fire protection, conveying and treating wastewater and stormwater and mitigating the effects of flood events. Rehabilitating and improving the capital infrastructure reduces the need to react to failures, associated expense and disruption to customers and the community.

It should be noted that the proposed CIP assumes funding for the replacement/rehabilitation of existing Utilities assets at a level of 75% of the predicted rate based on a recent asset management analysis. Staff believes this will be adequate and sustainable since renewal and rehabilitation techniques and approaches can be accomplished at a lower cost than complete replacement.

The proposed CIP budget should be adequate to address essential projects within the six-year planning time frame. The delays in the projects listed above are not expected to have a significant negative effect on the service level of the city’s utilities systems. Therefore there are no unfunded needs identified within the 6-year CIP.

However, to continue to meet capital project needs, including the recommended asset replacement goals of 60–75%, maintain compliance with Federal and State permit regulations and respond to the September 2013 flood disaster, utility rate increases will be needed as indicated in the following table. The preliminary 2015 increases are in bold.

**Table 11–2 Utility Rate Increases**

	2014	2015	2016	2017
Water	4%	<b>5%</b>	8%	8%
Wastewater	5%	<b>25%</b>	5%	5%
Stormwater/Flood Management	3%	<b>71%</b>	4%	4%



The revenue increase represents the amount of additional revenue to be generated from the monthly utility charges. The actual rate increase (e.g. \$ per 1,000 gallons) may or may not be equal to the revenue increase depending on whether any changes in consumption or use are factored in when calculating the actual rates. For example, if there were a projected decrease in consumption, in order to generate 4% more revenue from last year’s budget, monthly rates may need to increase greater than 4% to generate the needed revenue requirements.

Staff will continue to monitor and refine the asset replacement analysis and adjust the actual replacement rate within the 60–75 percent range as part of the annual budget process. Asset replacement at 75 percent of the predicted level has been used to formulate the 2015–2020 CIP budget.

*Construction Cost Inflation*

Construction cost inflation is tracked using the Engineering News Record (ENR) Cost Index for Denver and the Colorado Department of Transportation (CDOT) Colorado Construction Cost Index. The ENR index is a composite index based on costs for: 1) local portland cement, 2) local 2x4 lumber, 3) national structural steel, and 4) local union wages plus fringes for carpenters, bricklayers and iron workers. The CDOT index is a composite index based on costs for 1) unclassified excavation, 2) hot bituminous pavement 3) concrete pavement, 4) structural steel and 5) reinforcing steel. The ENR index is more reflective of equipment and building construction such as projects that occur at the treatment plants. The Colorado Construction Cost Index is more reflective of heavy civil construction such as roadway and major drainageway work. The following table presents information concerning these indices through December 2013:

**Table 11–3 Changes to ENR Index and CDOT Index**

	2012 Change	Running Average Yearly Change	
		5 years	10 years
<b>ENR Construction Cost Index for Denver</b>	7.65%	4.29%	4.71%
<b>CDOT Colorado Construction Cost Index</b>	16.55%	4.42%	11.44%

Based on this information it is recommended that capital improvement construction costs continue at a rate of 4% during the planning period. Using an average inflation calculation is in keeping with the principle of consistent rate increases over time rather than periodic large rate increases.



## Deferred Projects, Eliminated or Changed Projects

Funding for several projects has been changed in response to the impact of the September 2013 flood disaster.

## Unfunded Projects and Emerging Needs

The following unfunded projects have been identified:

### Water

- Albion Dam – Unfunded
- Wittemyer Ponds – Unfunded
- Boulder Reservoir Water Treatment Facility – Unfunded

### Wastewater

- Tier 1 Goose Creek 1/1A Master Plan Project – Unfunded

### Stormwater/ Flood Management

- South Boulder Creek Flood Mitigation Phase II – Unfunded

The Utilities Division has developed and maintains a 20-year CIP and associated financial plan. Large Utilities Division projects require many years for planning and a longer term horizon is needed to capture the time period required for overall project implementation. A 20-year plan provides a basis for longer term financial planning that is needed to support decision making regarding project timing, issuance of revenue bonds and rate increases. The above mentioned projects are indicated in the 20-year CIP.

Emerging needs have been identified as part of the recent Water Utility Master Plan. During the development of this master plan, a technical analysis was performed regarding the city's water treatment facilities and other infrastructure. The analysis indicates that this infrastructure should be adequate to meet water demand needs well into the future with little need for capacity expansion. However, a comprehensive analysis of existing assets pointed to the poor condition and aging of some mechanical and electrical equipment at the Betasso Water Treatment Facility. The Betasso Water Treatment Facility is the city's primary Water Treatment Facility and has deteriorated during almost 50 years of continuous operation despite on-going maintenance and rehabilitation. These issues, combined with inherent deficiencies in certain treatment process, are the reasons that large capital funding is recommended in 2015–2016.

Regulatory changes are another source of uncertainty and create emerging needs. For example, as explained in the Accomplishments and Highlights section of this memo, the city received a new discharge permit for the 75th Street Wastewater Treatment Facility in 2011 with new effluent limits. Complying with these limits will require a combination of regulatory negotiations,



environmental studies and Water Treatment Facility capital improvements.

### **Advisory Board Action**

The preliminary 2015 Utilities budget and 2015–2020 CIP was first presented to the WRAB on April 21, 2014 as a discussion item. WRAB hosted a public hearing and continued their discussion of the preliminary 2015 Utilities budget and 2015–2020 CIP on May 19, 2014. Seven members of the public addressed the WRAB during the public hearing and generally advocated for a more aggressive capital improvement program focusing on the rehabilitation of the sanitary sewer system and additional flood mitigation.

At the June 16, 2014 meeting WRAB hosted a public hearing during which seven members of the public spoke advocating a more aggressive capital improvement program focusing on the rehabilitation of the sanitary sewer system and additional flood mitigation.

After discussion, WRAB passed the following motion by a 4–0 vote:

*The Water Resources Advisory Board recommends approval of the 2015–2020 CIP for the Water, Wastewater, and Stormwater/Flood Management Utilities proposed in Attachment A including proposed rate adjustments to support 2015 revenue increases of 5% in the water utility, 25% in the wastewater utility, and 71% in the stormwater and flood control utility.*

Table 14-4: 2013-2018 Funding Summary By Department

## PUBLIC WORKS - STORMWATER AND FLOOD MANAGEMENT UTILITY

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Local Drainage Improvements	\$ -	\$ 780,000	\$ 811,200	\$ 843,648	\$ 877,394	\$ 912,490	\$ 948,989	5,173,721	\$ -	\$ -
Bear Canyon Creek Flood Mitigation	600,000	100,000	500,000	-	-	-	-	600,000	-	-
Boulder Creek Flood Mitigation	5,600,000	500,000	2,500,000	2,500,000	-	-	-	5,500,000	100,000	-
Gregory Creek Flood Mitigation	600,000	100,000	500,000	-	-	-	-	600,000	-	-
South Boulder Creek Flood Mitigation Phase I	24,000,000	250,000	750,000	750,000	10,150,000	-	-	11,900,000	300,000	11,800,000
Stormwater Quality Improvements	-	156,000	162,000	169,000	175,500	182,500	190,000	1,035,000	104,000	-
Upper Goose Creek Drainage	17,905,163	175,000	750,000	750,000	750,000	1,000,000	-	3,425,000	-	-
Utility Billing Computer System Replacement	-	50,000	-	-	-	-	-	50,000	-	-
Wonderland Creek - Foothills to 30th Street	-	10,000,000	-	-	-	-	-	10,000,000	3,033,092	-
Wonderland Creek at 28th Street	-	6,075,000	-	-	-	-	-	6,075,000	1,165,216	-
Fourmile Canyon Creek - Upland to Violet	-	-	500,000	500,000	500,000	750,000	2,500,000	4,750,000	-	-
Bluebell and King's Gulch Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
Skunk Creek Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
Twornile Canyon Creek Flood Mitigation	600,000	-	-	100,000	500,000	-	-	600,000	-	-
<b>Subtotal</b>	<b>\$ 50,505,163</b>	<b>\$ 18,186,000</b>	<b>\$ 6,473,200</b>	<b>\$ 5,812,648</b>	<b>\$ 13,952,894</b>	<b>\$ 2,844,990</b>	<b>\$ 3,638,989</b>	<b>\$ 50,908,721</b>	<b>\$ 4,702,308</b>	<b>\$ 11,800,000</b>
<b>Capital Maintenance</b>										
Storm Sewer Rehabilitation	\$ -	\$ 260,000	\$ 270,400	\$ 281,200	\$ 292,500	\$ 304,000	\$ 632,700	\$ 2,040,800	\$ -	\$ -
Transportation Coordination	-	312,000	324,500	337,500	351,000	365,000	633,000	2,323,000	260,000	-
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 572,000</b>	<b>\$ 594,900</b>	<b>\$ 618,700</b>	<b>\$ 643,500</b>	<b>\$ 669,000</b>	<b>\$ 1,265,700</b>	<b>\$ 4,363,800</b>	<b>\$ 260,000</b>	<b>\$ -</b>
<b>Land and Asset Acquisition</b>										
Preflood Property Acquisition	\$ -	\$ 500,000	\$ 500,000	\$ 550,000	\$ 600,000	\$ 633,000	\$ 660,000	\$ 3,443,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 550,000</b>	<b>\$ 600,000</b>	<b>\$ 633,000</b>	<b>\$ 660,000</b>	<b>\$ 3,443,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Transfer</b>										
Tributary Greenways Program - Stormwater & Flood	\$ -	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 97,500	\$ 585,000	\$ -	\$ -
<b>Subtotal</b>	<b>\$ -</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 97,500</b>	<b>\$ 585,000</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 50,505,163</b>	<b>\$ 19,355,500</b>	<b>\$ 7,665,600</b>	<b>\$ 7,078,848</b>	<b>\$ 15,293,894</b>	<b>\$ 4,244,490</b>	<b>\$ 5,662,189</b>	<b>\$ 59,300,521</b>	<b>\$ 4,962,308</b>	<b>\$ 11,800,000</b>

Table 14-2: 2013-2018 Funding Summary By Department (Cont.)

**PUBLIC WORKS - WASTEWATER UTILITY**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Utility Billing Computer System Replacement	\$ 115,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 65,000	\$ 115,000	\$ -	\$ -
Wastewater Treatment Activated Sludge	710,961	389,376	-	58,493	-	-	-	447,869	-	-
Wastewater Treatment Facility Instrumentation/Control	9,131,068	540,800	-	674,918	701,915	729,992	759,191	3,406,816	695,600	5,028,652
Wastewater Treatment Facility Permit Improvements - Funded	23,337,234	1,650,000	150,000	-	750,000	1,500,000	18,625,000	22,675,000	662,234	-
Marshall Landfill	100,000	-	100,000	-	-	-	-	100,000	-	-
Wastewater Treatment Facility Electrical	1,420,000	-	120,000	1,200,000	-	-	-	1,320,000	100,000	-
Wastewater Treatment Facility Laboratory	100,000	-	50,000	-	-	-	-	50,000	50,000	-
Wastewater Treatment Facility Pumps	448,413	-	150,000	-	-	-	-	150,000	298,413	-
Goose Creek Sanitary Sewer Interceptor Rehabilitation	2,019,578	-	-	-	25,000	647,590	1,346,988	2,019,578	-	-
<b>Subtotal</b>	<b>\$ 37,382,254</b>	<b>\$ 2,630,176</b>	<b>\$ 570,000</b>	<b>\$ 1,933,411</b>	<b>\$ 1,476,915</b>	<b>\$ 2,877,582</b>	<b>\$ 20,796,179</b>	<b>\$ 30,284,263</b>	<b>\$ 1,806,247</b>	<b>\$ 5,028,652</b>
<b>Capital Maintenance</b>										
Condition Assessment Program	\$ 5,173,721	\$ 780,000	\$ 811,200	\$ 843,648	\$ 877,394	\$ 912,490	\$ 948,989	\$ 5,173,721	\$ -	\$ -
IBM Lift Station Improvements	1,300,000	500,000	-	-	-	-	-	500,000	-	800,000
Sanitary Sewer Manhole Rehabilitation	1,264,660	208,000	216,320	224,973	233,972	24,331	253,064	1,160,660	104,000	-
Sanitary Sewer Rehabilitation	23,193,721	12,030,000	2,061,200	2,093,648	2,127,394	2,162,490	2,198,989	22,673,721	520,000	-
Collection System Monitoring	100,000	-	-	-	-	-	-	-	100,000	-
Wastewater Treatment Facility Digester Complex	2,200,000	-	-	-	-	200,000	2,000,000	2,200,000	-	-
Wastewater Treatment Facility Cogeneration	184,481	-	-	-	-	-	184,481	184,481	-	-
<b>Subtotal</b>	<b>\$ 33,416,583</b>	<b>\$ 13,518,000</b>	<b>\$ 3,088,720</b>	<b>\$ 3,162,269</b>	<b>\$ 3,238,760</b>	<b>\$ 3,299,311</b>	<b>\$ 5,585,523</b>	<b>\$ 31,892,583</b>	<b>\$ 724,000</b>	<b>\$ 800,000</b>
<b>Total</b>	<b>\$ 70,798,837</b>	<b>\$ 16,148,176</b>	<b>\$ 3,658,720</b>	<b>\$ 5,095,680</b>	<b>\$ 4,715,675</b>	<b>\$ 6,176,893</b>	<b>\$ 26,381,702</b>	<b>\$ 62,176,846</b>	<b>\$ 2,530,247</b>	<b>\$ 5,828,652</b>

Table 14-2: 2015-2020 Funding Summary By Department (Cont.)

## PUBLIC WORKS - WATER UTILITY

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>Capital Enhancement</b>										
Barker Dam and Reservoir	\$ 498,560	\$ 378,560	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 378,560	\$ 120,000	\$ -
Betasso Water Treatment Facility	13,325,000	700,000	12,125,000	-	-	-	-	12,825,000	500,000	-
Devil's Thumb Security Fence	50,000	50,000	-	-	-	-	-	50,000	-	-
Sunshine Transmission Pipe	2,000,000	1,000,000	-	-	-	-	-	1,000,000	1,000,000	-
Water System Security Upgrades	840,000	150,000	150,000	150,000	150,000	150,000	90,000	840,000	-	-
Barker Dam Outlet	9,062,557	-	50,000	175,000	803,414	8,034,143	-	9,062,557	-	-
Boulder Reservoir Water Treatment Facility - Funded	164,000	-	164,000	-	-	-	-	164,000	-	-
Lakewood Hydroelectric / Pressure Reducing Facility	430,000	-	130,000	-	-	300,000	-	430,000	-	-
Utility Billing Computer System Replacement	529,104	-	-	500,000	-	-	-	500,000	29,104	-
Lakewood Dam	124,707	-	-	-	124,707	-	-	124,707	-	-
Pearl Street Hydroelectric / Pressure Reducing Facility	267,664	-	-	-	24,333	243,331	-	267,664	-	-
Green Lake 2 Dam	5,223,557	-	-	-	-	75,000	468,051	543,051	-	4,680,506
Wittmyer Ponds - Funded	5,519,533	-	-	-	-	100,000	473,735	573,735	-	4,945,798
<b>Subtotal</b>	<b>\$ 38,034,682</b>	<b>\$ 2,278,560</b>	<b>\$ 12,619,000</b>	<b>\$ 825,000</b>	<b>\$ 1,102,454</b>	<b>\$ 8,902,474</b>	<b>\$ 1,031,786</b>	<b>\$ 26,759,274</b>	<b>\$ 1,649,104</b>	<b>\$ 9,626,304</b>
<b>Capital Maintenance</b>										
Barker Gravity Pipeline Repair	\$ -	\$ 378,560	\$ 667,416	\$ 612,436	\$ 636,933	\$ 662,410	\$ 688,907	\$ 3,646,662	\$ -	\$ -
Goose Lake Dam	20,000	20,000	-	-	-	-	-	20,000	-	-
Kohler Storage Tank	903,362	103,487	799,875	-	-	-	-	903,362	-	-
Lakewood Pipeline	846,730	270,400	-	-	-	316,330	-	586,730	260,000	-
Silver Lake Dam	75,000	75,000	-	-	-	-	-	75,000	-	-
Silver Lake Hydroelectric / PRV	150,000	150,000	-	-	-	-	-	150,000	-	-
Waterline Replacement	24,329,088	3,224,000	3,352,960	3,487,078	3,626,562	3,771,624	3,224,033	20,686,257	3,642,831	-
Watershed Improvements	260,000	80,000	80,000	-	-	-	100,000	260,000	-	-
Water Transmission Facilities (Zone 3)	250,000	-	1,200,000	-	-	250,000	-	1,450,000	-	(1,200,000)
Barker-Kossler Penstock Repair	116,986	-	-	116,986	-	-	-	116,986	-	-
Betasso Storage Tank	292,465	-	-	292,465	-	-	-	292,465	-	-
Sunshine Hydroelectric / Pressure Reducing Station	271,875	-	-	271,875	-	-	-	271,875	-	-
Water Transmission Facilities (Zone 2)	500,000	-	-	250,000	-	-	250,000	500,000	-	-
Betasso Hydroelectric / Pressure Reducing Facility	250,000	-	-	-	250,000	-	-	250,000	-	-
Water Transmission Facilities (Zone 1)	250,000	-	-	-	250,000	-	-	250,000	-	-
Farmer's Ditch	108,160	-	-	-	-	108,160	-	108,160	-	-
<b>Subtotal</b>	<b>\$ 28,623,666</b>	<b>\$ 4,301,447</b>	<b>\$ 6,100,251</b>	<b>\$ 5,030,840</b>	<b>\$ 4,763,495</b>	<b>\$ 5,108,524</b>	<b>\$ 4,262,940</b>	<b>\$ 29,567,497</b>	<b>\$ 3,902,831</b>	<b>\$ (1,200,000)</b>

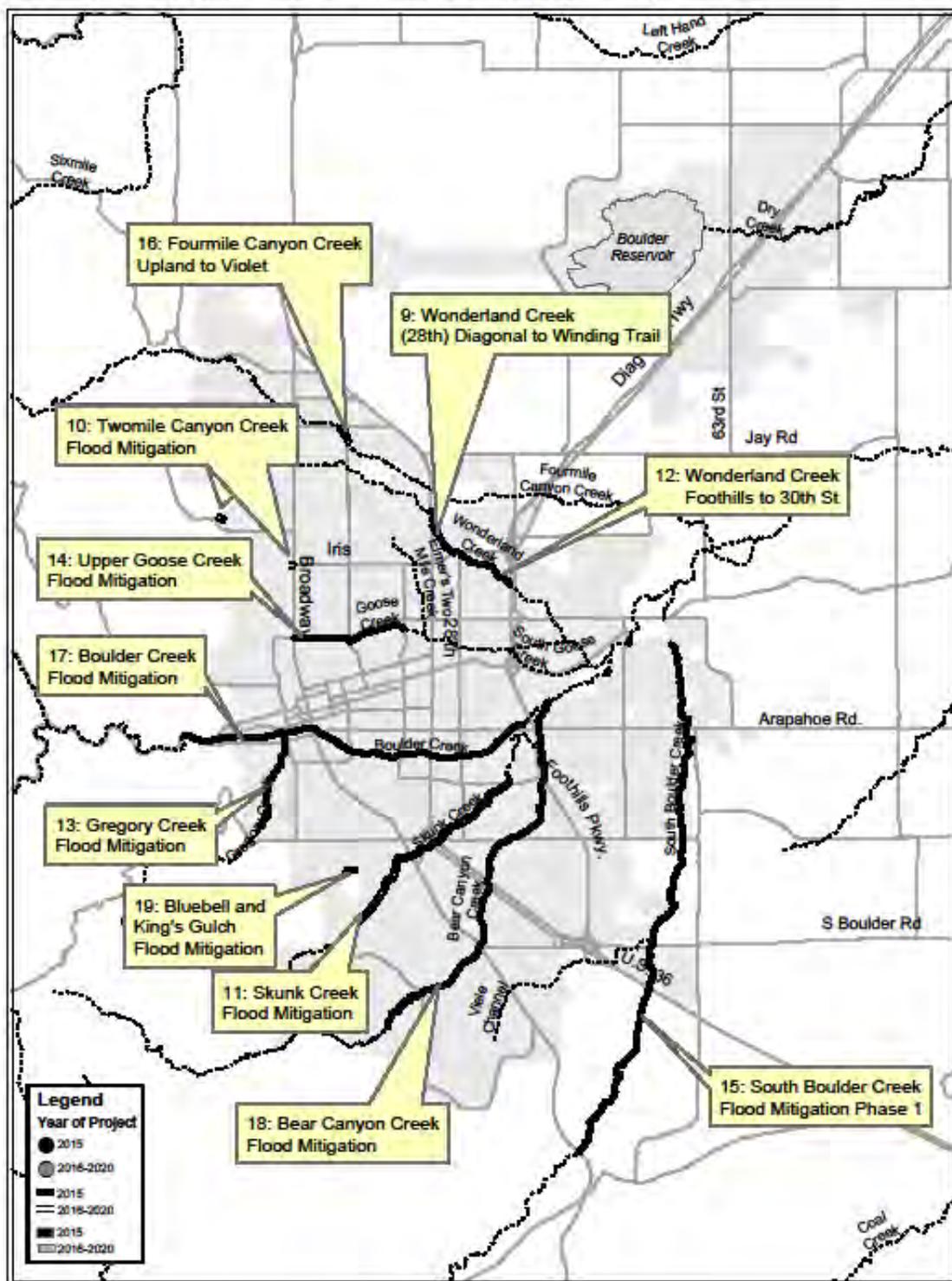
Table 14-2: 2015-2020 Funding Summary By Department (Cont.)

**PUBLIC WORKS - WATER UTILITY (Cont.)**

	Estimated Total Cost	2015 Recommended	2016 Projected	2017 Projected	2018 Projected	2019 Projected	2020 Projected	2015 - 2020 Total	Previously Allocated Funding	Unfunded Amount
<b>New Capital Project</b>										
Annexation Related Water System Expansion	\$ 5,000,000	\$ 2,500,000	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -	\$ -
NCWCD Conveyance - Carter Lake Pipeline	38,568,583	500,000	850,000	2,036,322	33,938,701	-	-	37,325,023	1,243,560	-
Barker Dam Hydroelectric	4,024,805	-	50,000	361,346	3,613,459	-	-	4,024,805	-	-
Source Water Monitoring	293,200	-	50,000	50,000	50,000	50,000	-	200,000	93,200	-
Carter Lake Hydroelectric	2,800,000	-	-	-	50,000	250,000	2,500,000	2,800,000	-	-
<b>Subtotal</b>	<b>\$ 50,686,588</b>	<b>\$ 3,000,000</b>	<b>\$ 3,450,000</b>	<b>\$ 2,447,668</b>	<b>\$ 37,652,160</b>	<b>\$ 300,000</b>	<b>\$ 2,500,000</b>	<b>\$ 49,349,828</b>	<b>\$ 1,336,760</b>	<b>\$ -</b>
<b>Total</b>	<b>\$ 117,344,936</b>	<b>\$ 9,580,007</b>	<b>\$ 22,169,251</b>	<b>\$ 8,303,508</b>	<b>\$ 43,518,109</b>	<b>\$ 14,310,998</b>	<b>\$ 7,794,726</b>	<b>\$ 105,676,599</b>	<b>\$ 6,888,695</b>	<b>\$ 8,426,304</b>

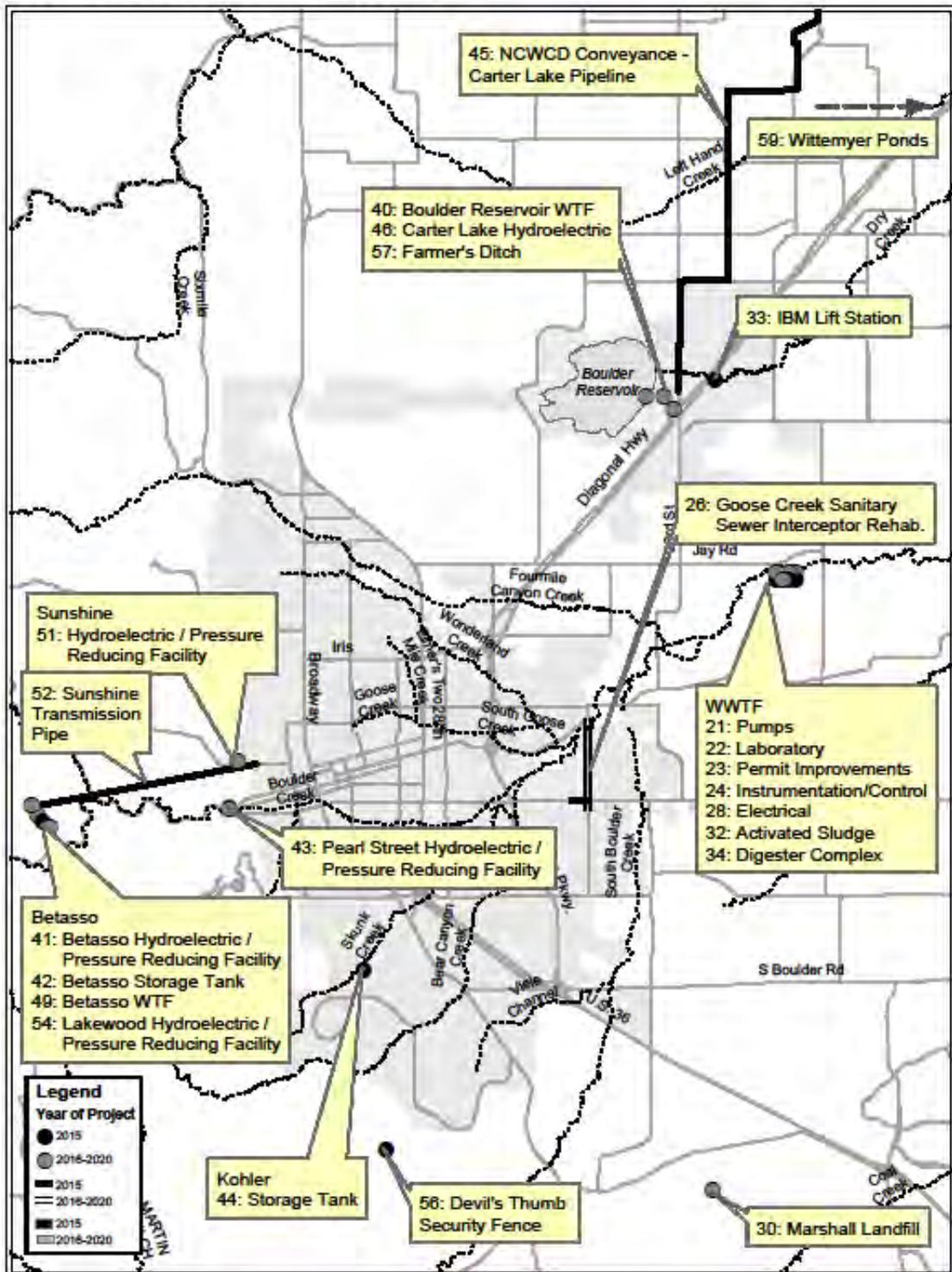


### City of Boulder Capital Improvement Projects, 2015 - 2020 PW / Utilities (Stormwater and Flood Management)





## City of Boulder Capital Improvement Projects, 2015 - 2020 PW / Utilities (Wastewater, Water)





## Utilities – Stormwater and Flood Management Utility

**Project Name:** Bear Canyon Creek Flood Mitigation

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	431010	<b>Map Number:</b>	18
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	To be initiated in 2015

### Project Description

A flood mitigation plan is being developed which will identify feasible mitigation improvements. Funding for the CEAP and design of these improvements is shown in 2015, with construction funding in 2016.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

The flood mitigation plan will be reviewed through a public process.

### Relationship with Other Departments

Flood mitigation alternatives will be developed in coordination with Parks, Open Space, Transportation, the University of Colorado and the Boulder Valley School District. Impacted parcels will not be known until flood mitigation alternatives are identified.

### Change from Past CIP

new funding

### Estimated Total Cost

#### Project Cost

Planning	\$100,000
Acquisition	\$0
Construction	\$500,000

**Total Project Cost**    **\$600,000**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$600,000
Funding Total	(\$600,000)

**Total Unfunded**    **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$100,000	\$500,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$600,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:**    \$0    **Funding Source:**

**Additional Annual O&M Description:**

No increase, funded by existing operating budget

# Utilities – Stormwater and Flood Management Utility



**Project Name:** Bluebell and King's Gulch Flood Mitigation

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	South Boulder
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	19
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	2017

### Project Description

A flood mitigation plan will be developed that will identify feasible mitigation improvements. Funding for the CEAP and design of these improvements is shown in 2017 with construction in 2018.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

The flood mitigation plan will be reviewed through a public process.

### Relationship with Other Departments

Flood mitigation alternatives will be developed in coordination with Transportation, University of Colorado, Parks, NOAA, NIST and NCAR. Impacted parcels will not be known until flood mitigation alternatives are identified.

### Change from Past CIP

new project

### Estimated Total Cost

#### Project Cost

Planning	\$60,000
Acquisition	\$100,000
Construction	\$440,000

**Total Project Cost** **\$600,000**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$600,000
Funding Total	(\$600,000)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$0	\$0	\$100,000	\$500,000	\$0	\$0
<b>Total Funding Plan</b>					<b>\$600,000</b>		

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$1,000 **Funding Source:** will be covered by existing maintenance budgets

**Additional Annual O&M Description:**



## Utilities – Stormwater and Flood Management Utility

**Project Name:** Boulder Creek Flood Mitigation

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	Areas I & II
<b>Project Number:</b>	431015	<b>Map Number:</b>	17
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	2015

### Project Description

This project will provide funds for possible flood mitigation work along Boulder Creek. Funding for the CEAP and design of these improvements is shown in 2015, with construction funding in 2016 and 2017

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

The flood mitigation plan will be reviewed through a public process.

### Relationship with Other Departments

Flood mitigation alternatives will be developed in coordination with Parks, Open Space, Transportation, the University of Colorado and the Boulder Valley School District. Impacted parcels will not be known until flood mitigation alternatives are identified.

### Change from Past CIP

funding was added in 2015-2017

### Estimated Total Cost

#### Project Cost

Planning	\$500,000
Acquisition	\$500,000
Construction	\$4,600,000

**Total Project Cost** \$5,600,000

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$5,600,000
Funding Total	(\$5,600,000)

**Total Unfunded** \$0

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$100,000	\$500,000	\$2,500,000	\$2,500,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<span style="border: 1px solid black; padding: 2px;">\$5,600,000</span>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:**

**Additional Annual O&M Description:**

No increase, funded by existing operating budget

# Utilities – Stormwater and Flood Management Utility



**Project Name:** Gregory Creek Flood Mitigation

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	431702	<b>Map Number:</b>	13
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	2015

### Project Description

A flood mitigation plan is being developed which will identify feasible mitigation improvements. Funding for the CEAP and design of these improvements is shown in 2015, with construction funding in 2016.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

Flood mitigation options will be reviewed through a public process.

### Relationship with Other Departments

Flood mitigation alternatives will be developed in coordination with Transportation, Open Space, Boulder Valley School District and Boulder County. Impacted parcels will not be known until flood mitigation alternatives are identified.

### Change from Past CIP

New project

### Estimated Total Cost

#### Project Cost

Planning	\$60,000
Acquisition	\$100,000
Construction	\$440,000

**Total Project Cost** **\$600,000**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$600,000
Funding Total	(\$600,000)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$100,000	\$500,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$600,000</b>					

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$1,000 **Funding Source:** will be covered by existing maintenance budgets

**Additional Annual O&M Description:**



## Utilities – Stormwater and Flood Management Utility

**Project Name:** Local Drainage Improvements

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

This capital project will provide funds to improve local drainage problems, many of which came to light as a result of the 2013 flood disaster and have persisted ever since. Areas that are likely to receive attention are the west valley of South Boulder Creek, and the Chautauqua and University Hill neighborhoods.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input type="checkbox"/> Fund includes sufficient reserves  |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

No additional public process is anticipated.

### Relationship with Other Departments

Transportation

### Change from Past CIP

New Project

### Estimated Total Cost

#### Project Cost

Planning	
Acquisition	
Construction	\$5,173,721

**Total Project Cost** \$5,173,721

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	
Funding Total	(\$5,173,721)

**Total Unfunded** \$0

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$780,000	\$811,200	\$843,648	\$877,394	\$912,490	\$948,989
<b>Total Funding Plan</b>	<b>\$5,173,721</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** Funding Source: Stormwater and Flood Management Enterprise Utility

**Additional Annual O&M Description:**

No increase, funded by existing operating budget

# Utilities – Stormwater and Flood Management Utility



**Project Name:** Preflood Property Acquisition

### Project at a Glance

<b>Project Type:</b>	Land and Asset Acquisition	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	431622	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

### Project Description

This project provides on-going funding for the purchase of properties in areas prone to flooding especially the city's high hazard regulatory area. Properties have been identified and prioritized along each of the city's major drainageways. Property owners have been contacted regarding the city's interest. The city periodically updates its flood mapping to reflect changing conditions and improvements in flood modeling. The highest risk properties are identified for purchase, based on updated mapping for each of the drainageways.

This project is for an ongoing funding program. Funding has been escalated to reflect inflation.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

Property owners have been contacted regarding the city's interest in purchasing.

### Relationship with Other Departments

Acquisition of parcels may require coordination with the city's Greenways Program, Transportation and Parks and Recreation.

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

- Planning
- Acquisition
- Construction

**Total Project Cost**

### Unfunded Amount

#### Unfunded Amount

- Project Cost Total
- Funding Total (\$3,443,000)

**Total Unfunded**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$500,000	\$500,000	\$550,000	\$600,000	\$633,000	\$660,000
<b>Total Funding Plan</b>	<b>\$3,443,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

#### Additional Annual O&M Description:

No increase, funded by existing operating budget



## Utilities – Stormwater and Flood Management Utility

**Project Name:** Skunk Creek Flood Mitigation

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	South Boulder
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	11
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	2017

### Project Description

A flood mitigation plan will be developed which will identify feasible mitigation improvements. Funding for the CEAP and design of these improvements is shown in 2017, with construction funding in 2018.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

The flood mitigation plan will be reviewed through a public process.

### Relationship with Other Departments

Flood mitigation alternatives will be developed in coordination with Transportation, University of Colorado, Parks, NOAA, NIST and NCAR. Impacted parcels will not be known until flood mitigation alternatives are identified.

### Change from Past CIP

new project

### Estimated Total Cost

#### Project Cost

Planning	\$60,000
Acquisition	\$100,000
Construction	\$440,000

**Total Project Cost** \$600,000

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$600,000
Funding Total	(\$600,000)

**Total Unfunded** \$0

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$0	\$0	\$100,000	\$500,000	\$0	\$0
<b>Total Funding Plan</b>	<span style="border: 1px solid black; padding: 2px;">\$600,000</span>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$1,000 **Funding Source:** will be covered by existing maintenance budgets

**Additional Annual O&M Description:**

# Utilities – Stormwater and Flood Management Utility



**Project Name:** South Boulder Creek Flood Mitigation Phase I

## Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	431202	<b>Map Number:</b>	15
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	No

## Project Description

This project is to mitigate flooding along South Boulder Creek from U.S. 36 to the confluence with Boulder Creek, based on recommendations in the Comprehensive Flood and Stormwater Master Plan. Flood mitigation alternatives have been evaluated and a draft recommendation is currently going through a public review process. Information has been presented in two open houses, twice to the Water Resources Advisory Board (WRAB) and at several stakeholder meetings. The proposed alternative includes construction of a regional flood detention facility located just south of US36, along with downstream capacity improvements. This alternative would eliminate the overtopping of US36 during a 100-year storm event and greatly reduce downstream flood risks.

It is anticipated that the project will be designed and constructed in three phases, each approximately \$15-\$25 million. The recommended first phase would construct the regional flood detention facility at US36. Funding shown in the CIP is for the first phase and is intended as seed money in the hopes of securing outside grants or federal money to complete the selected alternative.

## Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

## Public Process Status, Issues

The project has been presented to the public in two open houses, twice to the Water Resources Advisory Board (WRAB) and several stakeholder meetings. Following further refinement of the recommended alternative, the city will conduct an open house, coordinate with stakeholders, and present to the WRAB and City Council. These remaining public processes are anticipated to occur in late 2014 and in 2015.

## Relationship with Other Departments

Flood mitigation alternatives will be developed in coordination with Open Space, Colorado Department of Transportation, University of Colorado and Boulder Valley School District. The proposed alternatives would potentially impact the following parcels: CU South Campus, US 36, Manhattan Middle School and Flatirons Golf Course.

## Change from Past CIP

Funding moved out to 2018, increased and proposed for bonding

## Estimated Total Cost

### Project Cost

Planning	\$1,000,000
Acquisition	\$2,000,000
Construction	\$21,000,000
<b>Total Project Cost</b>	<b>\$24,000,000</b>

## Unfunded Amount

### Unfunded Amount

Project Cost Total	\$24,000,000
Funding Total	(\$12,200,000)

**Total Unfunded \$11,800,000**

## Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$300,000	\$250,000	\$750,000	\$750,000	\$10,150,000	\$0	\$0
<b>Total Funding Plan</b>	<b>\$12,200,000</b>						

## Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

### Additional Annual O&M Description:

No increase, funded by existing operating budget



## Utilities – Stormwater and Flood Management Utility

**Project Name:** Storm Sewer Rehabilitation

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	431760	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

### Project Description

The project provides funds for the rehabilitation of existing storm sewers. This project is for an ongoing funding program. The program is funded at \$250,000 per year (2013) escalated by an inflation index for future years.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

No additional public process is anticipated.

### Relationship with Other Departments

Transportation Division

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$0
Acquisition	\$0
Construction	

**Total Project Cost** \$0

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	
Funding Total	(\$2,040,800)

**Total Unfunded** \$0

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$260,000	\$270,400	\$281,200	\$292,500	\$304,000	\$632,700
<b>Total Funding Plan</b>	<b>\$2,040,800</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

#### Additional Annual O&M Description:

No increase, funded by existing operating budget

# Utilities – Stormwater and Flood Management Utility



**Project Name:** Stormwater Quality Improvements

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	431775	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

### Project Description

This project will fund stormwater quality projects as identified in the Stormwater Master Plan to improve water quality in Boulder Creek and its tributaries. This project is for an ongoing funding program. The program is funded at \$100,000 per year (2013) escalated by an inflation index for future years.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

No additional public process is anticipated.

### Relationship with Other Departments

Transportation Division

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning  
Acquisition  
Construction

**Total Project Cost**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total  
Funding Total

(\$1,139,000)

**Total Unfunded**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$104,000	\$156,000	\$162,000	\$169,000	\$175,500	\$182,500	\$190,000
<b>Total Funding Plan</b>	<b>\$1,139,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

#### Additional Annual O&M Description:

No increase, funded by existing operating budget



## Utilities – Stormwater and Flood Management Utility

**Project Name:** Transportation Coordination

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	431780	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

### Project Description

This project will fund the reconstruction of existing storm sewers, the construction of new storm sewers and water quality improvements as part of on-going Transportation Division improvement projects. This project is for an ongoing funding program. The program is funded at \$250,000 per year (2013) escalated by an inflation index for future years.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                            | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                 | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input type="checkbox"/> Includes sufficient funding for operation and maintenance          | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                     | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning |   |

### Public Process Status, Issues

No additional public process is anticipated.

### Relationship with Other Departments

Coordination with the City's Transportation Division

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	
Acquisition	\$0
Construction	
<b>Total Project Cost</b>	<b>\$0</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	
Funding Total	(\$2,583,000)
<b>Total Unfunded</b>	<b>\$0</b>

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$260,000	\$312,000	\$324,500	\$337,500	\$351,000	\$365,000	\$633,000
<b>Total Funding Plan</b>	<b>\$2,583,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

#### Additional Annual O&M Description:

No increase, funded by existing operating budget

# Utilities – Stormwater and Flood Management Utility



**Project Name:** Tributary Greenways Program - Stormwater & Flood

### Project at a Glance

<b>Project Type:</b>	Transfer	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	431630	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

### Project Description

The program is intended to improve and protect the many riparian corridors that pass through the city. Improvements include pedestrian/bicycle paths, drainage and flood control structures, and preservation and enhancement of natural features. A portion of the capital funding for this program was shifted to needed maintenance of existing system beginning in 2012. See Greenways CIP/Budget section. Project funding is ongoing. This project represents the Utilities Division contribution to the program.

### Relationship to Guiding Principles

- |  |  |
|--|--|
| <input type="checkbox"/> Consistent with Master Plans                              | <input type="checkbox"/> Sustains or improves existing assets  |
| <input type="checkbox"/> Achieves Community Sustainability goals                   | <input type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input type="checkbox"/> Includes sufficient funding for operation and maintenance | <input type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems            | <input type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning   |  |

### Public Process Status, Issues

No additional public process is anticipated.

### Relationship with Other Departments

The Greenways Program is coordinated with parks, utilities, planning, OSMP

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning  
Acquisition  
Construction

**Total Project Cost**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total  
Funding Total (\$585,000)

**Total Unfunded**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500
<b>Total Funding Plan</b>	<b>\$585,000</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

#### Additional Annual O&M Description:

Decreased funding to move operating expenses of \$52,500 to Operating budget



## Utilities – Stormwater and Flood Management Utility

**Project Name:** Twomile Canyon Creek Flood Mitigation

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	10
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	2017

### Project Description

A flood mitigation plan will be developed which will identify feasible mitigation improvements. Funding for the CEAP and design of these improvements is shown in 2017, with construction funding in 2018.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

The flood mitigation plan will be reviewed through a public process.

### Relationship with Other Departments

Flood mitigation alternatives will be developed in coordination with Open Space, Parks, Boulder Valley School District and Transportation. Impacted parcels will not be known until flood mitigation alternatives are identified.

### Change from Past CIP

new project

### Estimated Total Cost

#### Project Cost

Planning	\$60,000
Acquisition	\$100,000
Construction	\$440,000

**Total Project Cost** \$600,000

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$600,000
Funding Total	(\$600,000)

**Total Unfunded** \$0

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$0	\$0	\$100,000	\$500,000	\$0	\$0
<b>Total Funding Plan</b>	<span style="border: 1px solid black; padding: 2px;">\$600,000</span>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$1,000 **Funding Source:** will be covered by existing maintenance budgets

**Additional Annual O&M Description:**

# Utilities – Stormwater and Flood Management Utility



**Project Name:** Upper Goose Creek Drainage

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Central Boulder
<b>Department:</b>	PW/ Stormwater & Flood Management Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	431459	<b>Map Number:</b>	14
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	No

### Project Description

This project will fund the construction of a drainage improvements in the Upper Goose Creek drainage basin located between 9th and 19th Streets. This project was identified as the highest priority in the 2007 Stormwater Master Plan. Utilities will fund this project beginning in 2015 and continuing through 2029. The project has numerous components that will be completed in several phases. The "unfunded" amount reflected below simply refers to funding for the total of all project phases beyond 2019.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

The public process will be initiated in 2012.

### Relationship with Other Departments

Coordination with the City's Transportation Division. Impacted parcels will not be known until flood mitigation alternatives are identified.

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$2,000,000
Acquisition	\$0
Construction	\$15,905,163

**Total Project Cost** **\$17,905,163**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$17,905,163
Funding Total	(\$3,425,000)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Stormwater & Flood Management Utility Fund	\$0	\$175,000	\$750,000	\$750,000	\$750,000	\$1,000,000	\$0
<b>Total Funding Plan</b>		<b>\$3,425,000</b>					

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Stormwater and Flood Management Utility Enterprise Fund

#### Additional Annual O&M Description:

No increase, funded by existing operating budget



**Project Name:** Collection System Monitoring

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	421450	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project provides funds for monitoring of the City's wastewater collection system. This will be accomplished by using temporary flow measuring devices placed in selected manholes. Funds have been allocated on a 5-year cycle in both 2012 and 2017. The 2014 funding is intended to supplement the 2012 funding carryover to 2013. This project is for an ongoing funding program.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

Funding deleted in 2017

**Estimated Total Cost**

**Project Cost**

Planning  
Acquisition  
Construction

**Total Project Cost** **\$100,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total \$100,000  
Funding Total (\$100,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$100,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Condition Assessment Program

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** PW/ Wastewater Utility  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** System-wide  
**BVCPArea:**  
**Map Number:**  
**CEAP Status:**

**Project Description**

The Wastewater Utility Condition Assessment Program is intended to provide an ongoing comprehensive assessment of the City's sanitary sewer collection system. There are approximately 360 miles of sanitary sewer pipe in the collection system. The program is funded starting at \$780,000 per year (2015) escalated at 4% annually for the 2015-2020 CIP. This project is for an ongoing funding program.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

OSMP

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$0
Acquisition	
Construction	\$5,173,721
<b>Total Project Cost</b>	<b>\$5,173,721</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$5,173,721
Funding Total	(\$5,173,721)

<b>Total Project Cost</b>	<b>\$5,173,721</b>	<b>Total Unfunded</b>	<b>\$0</b>
---------------------------	--------------------	-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$0	\$780,000	\$811,200	\$843,648	\$877,394	\$912,490	\$948,989
<b>Total Funding Plan</b>		<b>\$5,173,721</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Wastewater Utility Enterprise Fund  
**Additional Annual O&M Description:**  
 No increase, funded by existing operating budget



**Project Name:** Goose Creek Sanitary Sewer Interceptor Rehabilitation

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	East Boulder
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	421002	<b>Map Number:</b>	26
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide funds for rehabilitation of the Goose Creek Sanitary Sewer Interceptor, which was identified as a Tier 1 rehabilitation project in the 2009 Wastewater Collection System Master Plan (WWCSMP). An "interceptor" sewer refers to a large diameter pipe with very few connections, as opposed to a "collector" sewer which is a medium diameter pipe with numerous smaller diameter sanitary service pipe connections. Utilities staff is in the process of updating the WWCSMP to incorporate data from the September 2013 flood event. This master plan update will evaluate whether this project remains one of the high priorities for the Wastewater Utility. The "unfunded" amount reflected below simply refers to funding for the project beyond 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$200,000
Acquisition	\$0
Construction	\$1,819,578
<b>Total Project Cost</b>	<b>\$2,019,578</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$2,019,578
Funding Total	(\$2,019,578)

<b>Total Unfunded</b>	<b>\$0</b>
-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$0	\$0	\$0	\$0	\$25,000	\$647,590	\$1,346,988
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$647,590</b>	<b>\$1,346,988</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** IBM Lift Station Improvements

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	
<b>Project Number:</b>		<b>Map Number:</b>	33
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

The city owns and operates one sanitary sewer pump station located along the Diagonal Hwy northeast of Boulder. The pump station, which conveys raw sewage to the wastewater collection system through a forcemain, is referred to as the IBM Lift Station because it was originally constructed to serve the IBM facility located along Highway 119. The Utilities workgroup will complete improvements to the lift station in 2015 and 2016 to address CDPHE permit requirements as well as mechanical and electrical upgrades.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

No additional public process is anticipated.

### Relationship with Other Departments

None

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$200,000
Acquisition	\$0
Construction	\$1,100,000
<b>Total Project Cost</b>	<b>\$1,300,000</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$1,300,000
Funding Total	(\$500,000)

**Total Unfunded \$800,000**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$500,000</b>					

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** Funding Source: Wastewater Utility Enterprise Fund

#### Additional Annual O&M Description:

The \$800,000 unfunded amount is in the 2014 project CIP.



**Project Name:** Marshall Landfill

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>		<b>Map Number:</b>	30
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will fund the decommissioning of the Marshall Landfill Treatment Facility. The facility was originally constructed to eliminate groundwater contamination at the original landfill site. The money will be used for landfill cap maintenance and repair and demolition of the groundwater treatment facility.

Based on EPA approval, the groundwater collection system was shut down on Nov. 30, 2004. The treatment plant and collection system equipment will need to be preserved. In addition, there are approximately 180 sampling and monitoring wells located on the site, many of which are no longer used or necessary. Part of the shutdown process will entail sealing the unnecessary wells in place. This work would be required by the EPA as part of the Superfund site decommissioning process.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$20,000
Acquisition	\$0
Construction	\$80,000
<b>Total Project Cost</b>	<b>\$100,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$100,000
Funding Total	(\$100,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Sanitary Sewer Manhole Rehabilitation

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	421454	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project provides for the rehabilitation and improvement to the existing wastewater manholes that are part of the city's sewer system. The program is funded at \$100,000 per year (2013) escalated by an inflation index for future years. This project is for an ongoing funding program.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

Transportation Division

**Change from Past CIP**

Additional funding included

**Estimated Total Cost**

**Project Cost**

Planning	
Acquisition	
Construction	\$1,483,660
<b>Total Project Cost</b>	<b>\$1,483,660</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$1,483,660
Funding Total	(\$1,483,660)

<b>Total Unfunded</b>	<b>\$0</b>
-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$104,000	\$208,000	\$216,320	\$224,973	\$233,972	\$243,331	\$253,064
<b>Total Funding Plan</b>	<b>\$1,483,660</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name: Sanitary Sewer Rehabilitation**

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	421002	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project provides for the rehabilitation and improvement to the existing collector sewer piping of the city's wastewater collection system. The program is funded at approximately \$2,00,000 per year (2014) escalated at 4% annually for the 2015-2020 CIP. This project is for an ongoing funding program.

Also included is funding for the rehabilitation of the city's sanitary interceptor sewer in 2015. Estimated costs associated with this project are \$10,000,000 and it is anticipated revenue bonds will be issues. The sanitary interceptor conveys 90% of the city's flow to the Wastewater Treatment facility (WWTF). City staff completed an inspection of approximately 6 miles of the interceptor in the spring of 2014 and found significant internal corrosion in numerous pipe sections. City staff will be completing inspection of an additional 10-12 miles of concrete sewer in 2014. The bond funds will be used to rehabilitate the worst condition sewer sections utilizing a combination of open cut and lining technologies.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

Transportation Division

**Change from Past CIP**

Addition funding for rehabilitation of the sanitary interceptor sewer included.

**Estimated Total Cost**

**Project Cost**

Planning	\$0
Acquisition	\$0
Construction	\$23,318,721
<b>Total Project Cost</b>	<b>\$23,318,721</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$23,318,721
Funding Total	(\$23,318,721)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$520,000	\$12,155,000	\$2,061,200	\$2,093,648	\$2,127,394	\$2,162,490	\$2,198,989
<b>Total Funding Plan</b>	<b>\$23,318,721</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Wastewater Treatment Facility Activated Sludge

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	421357	<b>Map Number:</b>	32
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will fund the rehabilitation of the facility's activated sludge process. The "activated sludge" system refers to the facility's biological (as opposed to physical or chemical) treatment process. The biological treatment process requires aerating the wastewater to grow microorganisms necessary to remove the organics in the wastewater. The 2015 funding is required to modify the aeration system in the Solids Contact Tanks. The 2017 funding is to provide maintenance on the three large blowers that provide the air to the aeration basins and the solids contact tanks. The "unfunded" amount reflected below simply refers to funding for the project beyond 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$100,000
Acquisition	\$0
Construction	\$610,961
<b>Total Project Cost</b>	<b>\$710,961</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$710,961
Funding Total	(\$447,869)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$0	\$389,376	\$0	\$58,493	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$447,869</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Wastewater Treatment Facility Cogeneration

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	421329	<b>Map Number:</b>	25
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will fund rehabilitation of the cogeneration (generation of electricity and heat from methane gas produced by the anaerobic digesters) facilities at the 75th Street WWTP. The 2013 funding is for a major overhaul of the co-gen engines that occurs every seven years.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input type="checkbox"/> Provides capacity and flexibility in long term planning              |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

Funding added in 2020

**Estimated Total Cost**

**Project Cost**

Planning	
Acquisition	
Construction	\$184,481
<b>Total Project Cost</b>	<b>\$184,481</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$184,481
Funding Total	(\$184,481)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$184,481
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$184,481</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Wastewater Utility Enterprise und

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Wastewater Treatment Facility Digester Complex

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>		<b>Map Number:</b>	34
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project is to fund the WWTF's secondary digester cover replacement. The existing secondary digester roof is a floating steel cover that was designed to move up and down to store methane gas. The roof has failed by tilting on three occasions in recent years when moisture entered the roof and caused an imbalance. The replacement construction cost is estimated at approximately \$2,000,000, and is funded in 2020. Design funding of \$200,000 is allocated in 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$200,000
Acquisition	\$0
Construction	\$2,000,000
<b>Total Project Cost</b>	<b>\$2,200,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$2,200,000
Funding Total	(\$2,200,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$0	\$0	\$0	\$0	\$0	\$200,000	\$2,000,000
<b>Total Funding Plan</b>	<b>\$2,200,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**



**Project Name:** Wastewater Treatment Facility Electrical

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	421439	<b>Map Number:</b>	28
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will fund the rehabilitation of various existing electrical systems at the 75th Street WWTF. Maintaining the facility's electrical infrastructure is a critical component to ensure adequate treatment. This project will include the replacement of numerous major electrical components. The 2014 funding is to replace the solids processing building motor control centers (MCC's). The 2016 and 2017 funding is for the design and construction respectively for similar large electrical systems throughout the facility.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$100,000
Acquisition	\$0
Construction	\$1,320,000

**Total Project Cost** **\$1,420,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$1,420,000
Funding Total	(\$1,420,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$100,000	\$0	\$120,000	\$1,200,000	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$1,420,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Wastewater Treatment Facility Instrumentation/Control

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	421437	<b>Map Number:</b>	24
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will fund the rehabilitation and/or replacement of instrumentation & control facilities at the 75th Street WWTF. These recommendations are based on the 2013 Process Automation System (PAS) Strategic Plan. The 'unfunded' amount reflected below simply refers to funding for the project beyond 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$900,000
Acquisition	\$0
Construction	\$8,231,068
<b>Total Project Cost</b>	<b>\$9,131,068</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$9,131,068
Funding Total	(\$4,102,416)
<b>Total Unfunded</b>	<b>\$5,028,652</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$695,600	\$540,800	\$0	\$674,918	\$701,915	\$729,992	\$759,191
<b>Total Funding Plan</b>	<b>\$4,102,416</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Wastewater Treatment Facility Laboratory

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>		<b>Map Number:</b>	22
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide funds for the rehabilitation and improvement of the existing chemical/biological laboratory and the 75th St. WWTF. The funds will be used for the replacements of counters, sinks, cabinets, and other laboratory equipment.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$10,000
Acquisition	\$0
Construction	\$90,000
<b>Total Project Cost</b>	<b>\$100,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$100,000
Funding Total	(\$100,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$50,000	\$0	\$50,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$100,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund  
**Additional Annual O&M Description:**  
 No increase, funded by existing operating budget



**Project Name:** Wastewater Treatment Facility Permit Improvements

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	421617	<b>Map Number:</b>	23
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project is intended to address additional WWTF facilities required to meet new effluent regulations identified in the 2011 Colorado Discharge Permit System (CDPS) Permit. In March 2011 the city received a new discharge permit for the 75th Street wastewater treatment facility (WWTF) with an effective date of May 1, 2011. The 2014-2016 funding is to address the current permit for daily max ammonia and nitrogen. The 2017-2019 funding is to address design needs associated with the anticipated Colorado Department of Public Health and Environment Regulation 85 permit requirements.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

Funding for construction of improvement added in 2020

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$1,500,000
Acquisition	\$0
Construction	\$21,837,234
<b>Total Project Cost</b>	<b>\$23,337,234</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$23,337,234
Funding Total	(\$23,337,234)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$662,234	\$1,650,000	\$150,000	\$0	\$750,000	\$1,500,000	\$18,625,000
<b>Total Funding Plan</b>	<b>\$23,337,234</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Wastewater Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Wastewater Treatment Facility Pumps

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Wastewater Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	411339	<b>Map Number:</b>	21
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will fund the rehabilitation of existing pumps at the 75th Street WWTF. The 2014 funding is for the secondary pump station including the variable frequency drives (VFD's). The 2016 funding is for future pumps based on the asset management needs.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$40,000
Acquisition	\$0
Construction	\$408,413
<b>Total Project Cost</b>	<b>\$448,413</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$448,413
Funding Total	(\$448,413)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Wastewater Utility Fund	\$298,413	\$0	\$150,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$448,413</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Wastewater Utility Enterprise Fund  
**Additional Annual O&M Description:**  
 No increase, funded by existing operating budget



**Project Name:** Annexation Related Water System Expansion

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Area II
<b>Project Number:</b>	411433	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project provides funding for the installation of water mains in one or more Area II neighborhoods. It is anticipated the existing county rights-of way would be annexed to the city and used for the installation of the water and/or sewer mains. Residents would be able to connect to the city's wastewater system after paying the appropriate fees.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

Pre-Annexation negotiations.

**Relationship with Other Departments**

Planning-Annex Area II properties  
 CAO-Annexation agreements and legal documents (easements)  
 Finance-Reimbursement agreements and payment plans  
 Boulder County and Transportation-Prioritization of pavement rehabilitation and entity responsibility  
 City Transportation-Prioritization of pavement rehabilitation and entity responsibility  
 Fire & Police- Response boundaries

**Change from Past CIP**

Offered to help out flood affected residents not on city utilities.

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$500,000
Acquisition	
Construction	\$4,500,000
<b>Total Project Cost</b>	<b>\$5,000,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$5,000,000
Funding Total	(\$5,000,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$2,500,000	\$2,500,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$5,000,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget.



**Project Name:** Barker Dam and Reservoir

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411110	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will provide funds for deficiency corrections at the existing Barker Dam, including security related projects.

These repairs and improvements are required as part of the agency (SEO and FERC) Dam Safety Inspection Evaluations and while not an immediate safety concern, they are necessary to eliminate the potential of storage limitations being enforced/regulated. This project will begin in 2015. The project is anticipated to complete construction in 2016.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$60,000
Acquisition	
Construction	\$438,560

**Total Project Cost** **\$498,560**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$498,560
Funding Total	(\$498,560)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$120,000	\$378,560	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$498,560</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Barker Dam Hydroelectric

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>		<b>Map Number:</b>	0
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	To be initiated in 2016

**Project Description**

Design and construction of a new hydroelectric facility to be integrated into the Barker Dam Outlet Works Project. The anticipated capacity is 1.5 megawatts total. Alternative approaches to the project will be considered by city staff and technical consultants as part of a technical analysis to be initiated in 2018. Information regarding the alternative approaches will be provided as part of the CEAP which has not been started yet.

This project will begin in 2019. The project is anticipated to complete construction in 2020.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The CEAP will be initiated in 2016

**Relationship with Other Departments**

Energy Strategy and Electric Utility Development

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$440,832
Acquisition	
Construction	\$4,101,789

**Total Project Cost** **\$4,542,621**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$4,542,621
Funding Total	(\$4,542,621)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$0	\$50,000	\$390,832	\$4,101,789
<b>Total Funding Plan</b>	<b>\$4,542,621</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$37,000 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

Operating costs will be offset by increased hydroelectric revenue.



**Project Name:** Barker Dam Outlet

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411109	<b>Map Number:</b>	0
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	To be initiated in 2016

**Project Description**

This project will provide funds for the replacement of the existing outlet works system of Barker Dam. The Barker Dam outlet facilities are over 100-years old and in need of significant rehabilitation. The current configuration of the outlet gates requires that Barker Reservoir be nearly emptied to perform a thorough inspection once every 5-10 years. Reconfiguration of the outlet facilities would potentially eliminate the need to empty the reservoir for gate inspection. As currently envisioned, the project would require construction of a vertical shaft near the north embankment, inlet tunnels and one outlet tunnel, an outlet distribution facility, a pipeline to Barker Gravity Line, and valve house. The outlet facilities would provide the opportunity to develop a hydroelectric generation facility as well. Alternative approaches to the project will be considered by city staff and technical consultants as part of a technical analysis to be initiated in 2016. Information regarding the alternative approaches will be provided as part of the CEAP.

This project will begin in 2016. The project is anticipated to complete construction in 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The CEAP will be initiated in 2016.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$1,028,414
Acquisition	
Construction	\$8,134,143

**Total Project Cost** **\$9,162,557**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$9,162,557
Funding Total	(\$9,162,557)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$50,000	\$175,000	\$803,414	\$8,134,143	\$0
<b>Total Funding Plan</b>						<b>\$9,162,557</b>	

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Barker Gravity Pipeline Repair

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411106	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will provide funds for ongoing repairs to the existing Barker gravity pipeline. Barker Gravity Pipeline is a critical component of the city's source water system because it conveys the city's Barker Reservoir/Middle Boulder Creek water to Betasso Water Treatment Plant (WTP). Stored water from Barker Reservoir and direct flows from Middle Boulder Creek are used to meet approximately 35 percent of the city's annual water needs. The city has, as part of an ongoing maintenance effort, already replaced and rehabilitated segments of the 11-mile Barker Gravity Pipeline that demonstrated the most degradation in condition or highest likelihood of failure. It is recommended the city continue its annual maintenance program, prioritizing based on the most critical needs, and also consider providing enough earthen cover to protect the pipeline, and anchor the pipeline in areas prone to landslides or other damaging events. Section replacement or specific lining techniques are options that may each work well in different parts of the pipeline depending on access considerations. The city will continue to coordinate with the USFS concerning maintenance activities on federal land. The projected funds will allow for continued minor rehabilitation efforts (repair of leaks, siphons, etc, as has been done over the past several years) and an evaluation of pilot replacement/lining alternatives through 2016 with continued maintenance every year through 2019.

In addition, the funding for this project in 2016 will also support on-going federal permitting issues associated with the Barker Water System. A request has been made to convert the current Federal Energy Regulatory Commission(FERC) licensed project to a FERC small conduit exemption from licensing. There are significant technical and legal analysis and documentation required to support this request and to obtain a separate land use authorization (i.e. Special Use Permit) from the U.S. Forest Service for continued occupancy of federal land by the Barker Gravity Pipeline.

This project is for an ongoing funding program. In 2013, \$350,000 will be spent on the project as described above and escalated in the years 2014 to 2019 to allow for continued prioritized repairs.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input type="checkbox"/> Sustains or improves existing assets   |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$100,000
Acquisition	
Construction	\$3,546,662

**Total Project Cost**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total
Funding Total

**Total Unfunded**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund		\$378,560	\$667,416	\$612,436	\$636,933	\$662,410	\$688,907

**Total Funding Plan**

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Barker-Kossler Penstock Repair

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411107	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will provide funds for analysis and repair of the existing Barker-Kossler Penstock including the need for replacement or targeted repairs as recommended from analyses including metallurgical and corrosion experts.

This project will begin in 2017.  
Costs:

1. Planning: \$ 15,000
2. Land Acquisition: \$ 0
3. Construction: \$ 101,986

The project is anticipated to complete construction in 2017.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$16,986
Acquisition	
Construction	\$100,000
<b>Total Project Cost</b>	<b>\$116,986</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$116,986
Funding Total	(\$116,986)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$116,986	\$0	\$0	\$0
<b>Total Funding Plan</b>				<b>\$116,986</b>			

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Betasso Hydroelectric / Pressure Reducing Facility

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411974	<b>Map Number:</b>	41
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will fund rehabilitations to the Betasso Hydroelectric / Pressure Reducing Facility including a required 10 year scheduled maintenance overhaul of the existing turbine-generator equipment.

This project will begin in 2015. The project is anticipated to complete construction in 2017.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$10,000
Acquisition	
Construction	\$240,000

**Total Project Cost** **\$250,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$250,000
Funding Total	(\$250,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0
<b>Total Funding Plan</b>					<b>\$250,000</b>		

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Betasso Storage Tank

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>		<b>Map Number:</b>	42
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide funds for the rehabilitation and exterior painting of the Betasso Storage Tank. The facility is an elevated steel tank that has deteriorated due to weather and other environmental factors that primarily affect the protective paint coating. This project will begin in 2017 and is anticipated to complete construction in 2018.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$14,623
Acquisition	
Construction	\$277,842
<b>Total Project Cost</b>	<b>\$292,465</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$292,465
Funding Total	(\$292,465)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$292,465	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$292,465</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Betasso Water Treatment Facility

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPCArea:</b>	Outside Planning Area
<b>Project Number:</b>	411947	<b>Map Number:</b>	49
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	2015?

**Project Description**

This project will provides funds for rehabilitations and improvements to the Betasso Water Treatment Facility. The Betasso is the city's primary Water Treatment Facility and has deteriorated during almost 50 years of continuous operation despite ongoing maintenance and rehabilitation. Also, pretreatment capacity limitations of the existing flocculation/sedimentation process result in residuals that comprise more water content than desired. This results in inadequate residuals dewatering capacity using the existing drying beds and lagoons. The city is currently using private contract hauling services to overcome this limitation.

Funding in 2014 will be used to fund a pre-treatment and residual study, chemical storage tanks and piping and rehabilitation of the combined influent flow meter.

Funding in 2014 and 2015 will be used for design of the major rchabilitation and improvement project.

Funding in 2016 is for the construction of the major rehabilitation and improvement project and includes:

- \$5,249,658 Water fund
- \$11,996,245 Bond Proceeds
- \$475,000 Bond Issuance Costs

The project is anticipated to to be completed in 2018.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

Follow up with County on a 1041 exemption will be completed in late 2014/early 2015 along with an alternative analysis prepared for WRAB. Depending on City and County staff determinations a CEAP may be required in 2015.

**Relationship with Other Departments**

Enbergy efficiency coordination with CP&S

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$1,200,000
Acquisition	\$125,000
Construction	\$12,000,000
<b>Total Project Cost</b>	<b>\$13,325,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$13,325,000
Funding Total	(\$13,325,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$500,000	\$700,000	\$12,125,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$13,325,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Boulder Reservoir Water Treatment Facility - Funded

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Gunbarrel
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>	411652	<b>Map Number:</b>	40
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide funds for on-going maintenance and rehabilitation of the Boulder Reservoir Water Treatment Facility. Funding in 2016 will be used to replace effluent flow meters, chemical feed and process controls, pressure and flow instruments and filter controls.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$35,000
Acquisition	\$0
Construction	\$129,000

**Total Project Cost** **\$164,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$164,000
Funding Total	(\$164,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$164,000	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>	<b>\$164,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Carter Lake Hydroelectric

### Project at a Glance

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Gunbarrel
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Area I
<b>Project Number:</b>		<b>Map Number:</b>	46
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	No

### Project Description

This project provides funds for the planning, design and construction of a potential new hydroelectric facility at or near the Boulder Reservoir Water Treatment Facility. The possibility of this facility would be made available by the construction of the Carter Lake Pipeline Project as the pipeline head pressure would have to be dissipated before flowing into the Water Treatment Facility. Funding allocated in the current CIP is for planning, design and construction.

This project will begin in 2018 with an Alternatives Study and the CEAP process.  
Costs:

1. Planning and Design: \$ 300,000 (2017 and 2018)
2. Land Acquisition: \$ 0
3. Construction: \$ 2,500,000 (2019 Bond)

The project is anticipated to complete construction in 2020.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

The CEAP will be initiated in 2018.

### Relationship with Other Departments

Energy Utility Office

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$300,000
Acquisition	
Construction	\$2,500,000
<b>Total Project Cost</b>	<b>\$2,800,000</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$2,800,000
Funding Total	(\$2,800,000)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$0	\$50,000	\$250,000	\$2,500,000
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$250,000</b>	<b>\$2,500,000</b>

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** Funding Source: Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget (needs to be confirmed)



**Project Name:** Devil's Thumb Security Fence

**Project at a Glance**

<b>Project Type:</b> Capital Enhancement	<b>Subcommunity:</b> Area III
<b>Department:</b> PW/ Water Utility	<b>BVCP Area:</b> Area III
<b>Project Number:</b> 411674	<b>Map Number:</b> 56
<b>CEAP Required:</b> No	<b>CEAP Status:</b>

**Project Description**

Add fence at Devil's Thumb.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

Coordinate with OSMP and Boulder County permitting regarding fence/camera location and access.

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	
Acquisition	
Construction	\$50,000
<b>Total Project Cost</b>	<b>\$50,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$50,000
Funding Total	(\$50,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$50,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Fund.

**Additional Annual O&M Description:**

No increase, funded by existing operating budget.

# Utilities – Water Utility



**Project Name:** Farmer's Ditch

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCP Area:</b>	
<b>Project Number:</b>	411550	<b>Map Number:</b>	57
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

Re-evaluation of Farmer's Ditch capacity to divert Boulder Creek water to Boulder Reservoir from the 13.52 cfs of Farmers Ditch rights decreed for instream flow and municipal uses in Case No. 90CW193 and conveyed to the CWCB for instream flow use on Boulder Creek. This has the potential to increase municipal water yield based on Hydrosphere memo dated June 2008 and Love & Associates hydraulic analysis and improvement plan report dated Sept. 1996. This is more of a "complete by build-out" project. No construction cost escalation between 2008 and 2013.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

### Relationship with Other Departments

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning  
Acquisition  
Construction

**Total Project Cost** **\$108,160**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total \$108,160  
Funding Total (\$108,160)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$0	\$0	\$108,160	\$0
<b>Total Funding Plan</b>	<b>\$108,160</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**



**Project Name:** Goose Lake Dam

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** PW/ Water Utility  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** Outside Planning Area  
**BVCPArea:**  
**Map Number:** 58  
**CEAP Status:**

**Project Description**

To meet SEO Dam Safety requirements, in 2015 the city will conduct an inspection and assessment of the Outlet System at Goose Lake Dam including the intake, conduit and valve system.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

**Relationship with Other Departments**

**Change from Past CIP**

**Estimated Total Cost**

Project Cost	
Planning	\$1,000
Acquisition	
Construction	\$19,000
<b>Total Project Cost</b>	<b>\$20,000</b>

**Unfunded Amount**

Unfunded Amount	
Project Cost Total	\$20,000
Funding Total	(\$20,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$20,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**



**Project Name:** Green Lake 2 Dam

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411627	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will provide funds for the evaluation of alternatives and design of the rehabilitation of Green Lake 2 Dam, located in the City's Watershed. Green Lake 2 Dam is in need of extensive rehabilitation to allow continued storage of water. Funding allocated in the current CIP is for analysis of alternatives in 2019 and then design plus construction in 2020/2021.

This project which was originally scheduled to begin in 2013 has been shifted out due to other prioritized Water Resource projects. Estimated total cost is \$5,223,557 including construction and prior funding. The project is anticipated to complete construction in 2021.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$543,051
Acquisition	
Construction	\$4,680,506
<b>Total Project Cost</b>	<b>\$5,223,557</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$5,223,557
Funding Total	(\$543,051)

**Total Unfunded \$4,680,506**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$0	\$0	\$75,000	\$468,051
<b>Total Funding Plan</b>	<b>\$543,051</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Kohler Storage Tank

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	South Boulder
<b>Department:</b>	PW/ Water Utility	<b>BVCP Area:</b>	Area I
<b>Project Number:</b>	411671	<b>Map Number:</b>	44
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide funds for the design and rehabilitation of the Kohler Storage Tank roofing system and siding to seal the tank from the outside environment. This project will begin in 2015 and is anticipated to complete construction in 2016.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$20,000
Acquisition	
Construction	\$883,362
<b>Total Project Cost</b>	<b>\$903,362</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$903,362
Funding Total	(\$903,362)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$103,487	\$799,875	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$903,362</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Lakewood Dam

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411981	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will provide funds for security improvements at Lakewood Reservoir that are required to update to the level of all city facilities subject to public access and as recommended in the Source Water Master Plan and subsequent consultant reports.

This project will begin in 2018. The project is anticipated to complete construction in 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$10,000
Acquisition	
Construction	\$114,707

**Total Project Cost** **\$124,707**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$124,707
Funding Total	(\$124,707)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$0	\$124,707	\$0	\$0
<b>Total Funding Plan</b>					<b>\$124,707</b>		

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget.



**Project Name:** Lakewood Hydroelectric / Pressure Reducing Facility

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>	411801	<b>Map Number:</b>	54
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project provides funds for the rehabilitation of the Lakewood Turbine Generator and Pressure Reducing Valve (PRV). The Turbine Generator is scheduled to be over-hauled in 2015 and the PRV valve will be taken offline and a major over-haul will be completed per manufacture's recommendations in 2019.

This project will begin in 2016 with the Turbine Generator Over-Haul.  
Costs (2016):

1. Planning: \$ 10,000
2. Land Acquisition: \$ 0
3. Construction: \$ 120,000

The generator project is anticipated to complete construction in 2016.

PRV Valve Overhaul Costs (2019):

1. Planning: \$ 10,000
2. Land Acquisition: \$ 0
3. Construction: \$ 290,000

The Lakewood PRV project is anticipated to complete construction in 2019.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

<b>Project Cost</b>	
Planning	\$20,000
Acquisition	
Construction	\$410,000
<b>Total Project Cost</b>	<b>\$430,000</b>

**Unfunded Amount**

<b>Unfunded Amount</b>	
Project Cost Total	\$430,000
Funding Total	(\$430,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$130,000	\$0	\$0	\$300,000	\$0
<b>Total Funding Plan</b>						<b>\$430,000</b>	

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source: Water Utility Enterprise Fund

**Additional Annual O&M Description:**

To be determined, operating costs will be offset by increased hydroelectric revenue.



**Project Name:** Lakewood Pipeline

### Project at a Glance

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411780	<b>Map Number:</b>	0
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	Yes

### Project Description

Funds have been budgeted in 2014 for re-inspection of the Lakewood Pipeline due to concerns with the original pipeline construction. Based on observations made during the 2009 inspection it is recommended that the frequency of inspections be reduced to one every five years. No funds have been budgeted for pipeline repair costs. Funds would be transferred from the Lakewood Pipeline Remediation Reserve to cover the costs.

Estimated costs are determined from initial estimate in 2008 for inspections costing \$250,000 every 5 years and escalated from the year of the estimate (2008).

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

No additional public process is anticipated.

### Relationship with Other Departments

None

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$30,000
Acquisition	\$0
Construction	\$816,730

**Total Project Cost** **\$846,730**

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$846,730
Funding Total	(\$846,730)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$260,000	\$270,400	\$0	\$0	\$0	\$316,330	\$0
<b>Total Funding Plan</b>	<b>\$846,730</b>						

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

#### Additional Annual O&M Description:

No increase, funded by existing operating budget



**Project Name:** NCWCD Conveyance - Carter Lake Pipeline

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411547	<b>Map Number:</b>	45
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	No

**Project Description**

This project will provide funds for the planning, design and construction of a pipeline from Carter Lake to the Boulder Reservoir Water Treatment Facility. The Pipeline is considered the best long-term solution to water quality, operational and security vulnerability issues related to drawing water directly from either the Boulder Feeder Canal or Boulder Reservoir. The pipeline construction and alignment was approved by Boulder County under the 1041 permit process in 2012 and a significant portion of the right-of-way was acquired. Acquisition of additional easements is anticipated in 2014-2016. Information from the 1041 permit will be incorporated into the CEAP document. The Northern Colorado Water Conservancy District is the lead agency and the City of Boulder and the Left Hand Water District are project participants. The pipeline would also provide the opportunity to develop a hydroelectric generation facility. No additional O&M expenses is anticipated since the pipeline will be owned by the NCWCD and water delivery charges should not change because of the pipeline.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

A 1041 permit application for this project has been submitted to Boulder County and it is anticipated a permit will be issued in 2012. Information from the 1041 permit will be incorporated into the CEAP.

**Relationship with Other Departments**

None

**Change from Past CIP**

updated construction cost estimate information obtained from NCWCD in 2014

**Estimated Total Cost**

**Project Cost**

Planning	\$2,036,322
Acquisition	\$2,593,560
Construction	\$34,288,701

**Total Project Cost** **\$38,918,583**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$38,918,583
Funding Total	(\$38,918,583)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$1,243,560	\$500,000	\$850,000	\$2,036,322	\$34,288,701	\$0	\$0
<b>Total Funding Plan</b>	<b>\$38,918,583</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

To Be Determined



**Project Name:** Pearl Street Hydroelectric / Pressure Reducing Facility

### Project at a Glance

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>		<b>Map Number:</b>	43
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

### Project Description

This project provides for the installation of a hydroelectric turbine and generator at the city's Pearl Street pressure reducing facility. Currently water pressure is reduced using a pressure reducing valve which wastes the available energy in the water. This energy could be used to produce electricity and the project would add hydroelectric generation to the facility. This project will begin in 2018 and is anticipated to complete construction in 2020.

### Relationship to Guiding Principles

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

### Public Process Status, Issues

No additional public process is anticipated.

### Relationship with Other Departments

Coordinate on energy efficiency with CP&S

### Change from Past CIP

### Estimated Total Cost

#### Project Cost

Planning	\$24,333
Acquisition	
Construction	\$243,331
<b>Total Project Cost</b>	<b>\$267,664</b>

### Unfunded Amount

#### Unfunded Amount

Project Cost Total	\$267,664
Funding Total	(\$267,664)

**Total Unfunded** **\$0**

### Capital Funding Plan

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0		\$0	\$24,333	\$243,331	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>	<b>\$24,333</b>	<b>\$243,331</b>	<b>\$0</b>

### Additional Annual Operations and Maintenance

**Additional Annual O&M:** Funding Source: Water Utility Enterprise Fund

#### Additional Annual O&M Description:

To be determined, operating costs will be offset by increased hydroelectric revenue.



**Project Name:** Silver Lake Dam

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** PW/ Water Utility  
**Project Number:**  
**CEAP Required:** No  
**Subcommunity:** Outside Planning Area  
**BVCPArea:**  
**Map Number:**  
**CEAP Status:**

**Project Description**

As per Dam Safety Requirements and SEO Inspections at the dam, the city is required to complete an inspection of the Outlet System including the intake, conduit and valving in 2015.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

**Relationship with Other Departments**

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$5,000
Acquisition	
Construction	\$70,000
<b>Total Project Cost</b>	<b>\$75,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$75,000
Funding Total	(\$75,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$75,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**



**Project Name:** Silver Lake Hydroelectric / PRV

**Project at a Glance**

**Project Type:** Capital Maintenance  
**Department:** PW/ Water Utility  
**Project Number:** 411970  
**CEAP Required:** No  
**Subcommunity:** Outside Planning Area  
**BVCPArea:**  
**Map Number:**  
**CEAP Status:**

**Project Description**

This project will fund the required rehabilitation of the Silver Lake Hydroelectric / Pressure Reducing Facility including scheduled maintenance items and Bypass Valve repairs.

**Relationship to Guiding Principles**

- Consistent with Master Plans
- Achieves Community Sustainability goals
- Includes sufficient funding for operation and maintenance
- Maintains and enhances city's business systems
- Provides capacity and flexibility in long term planning
- Sustains or improves existing assets
- Maximizes efficiency and demonstrates positive cost/benefit
- Fund includes sufficient reserves
- Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency

**Public Process Status, Issues**

**Relationship with Other Departments**

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning \$10,000  
 Acquisition  
 Construction \$140,000

**Total Project Cost \$150,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total \$150,000  
 Funding Total (\$150,000)

**Total Unfunded \$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>		<b>\$150,000</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:  
**Additional Annual O&M Description:**



**Project Name:** Source Water Monitoring

**Project at a Glance**

<b>Project Type:</b>	New Capital Project	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	
<b>Project Number:</b>		<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

To be consistent with the Source Water Master Plan recommendations and new agency directives for measuring water allocations and for potential wildfire mitigation; city staff will improve flow measurement and water quality sampling systems for source water system. This project, though not previously included in the 2014-2019 CIP, began in 2013. Costs include design and construction of the various potential system improvements.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city’s business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

**Relationship with Other Departments**

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$75,000
Acquisition	
Construction	\$425,000
<b>Total Project Cost</b>	<b>\$500,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$500,000
Funding Total	(\$500,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$0
<b>Total Funding Plan</b>	<b>\$500,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** Funding Source:

**Additional Annual O&M Description:**



**Project Name:** Sunshine Hydroelectric / Pressure Reducing Station

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Area III
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Area III
<b>Project Number:</b>		<b>Map Number:</b>	51
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide funds for the rehabilitation of the Sunshine Hydro/PRV Station including flow meter and rehabilitation or replacement of the existing control system. This project will begin in 2017 and is anticipated to complete construction in 2018.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated

**Relationship with Other Departments**

Coordinate with CP&S on energy efficiency.  
Coordinate with OSMP on access.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$27,188
Acquisition	
Construction	\$244,687
<b>Total Project Cost</b>	<b>\$271,875</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$271,875
Funding Total	(\$271,875)

<b>Total Unfunded</b>	<b>\$0</b>
-----------------------	------------

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$271,875	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$271,875</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Sunshine Transmission Pipe

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>	411006	<b>Map Number:</b>	52
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide funds for the rehabilitation/inspection of the Sunshine Transmission Pipe. The pipe is a cement mortar lined steel pipeline that has deteriorated during its operation over a period of several decades. Funding in 2013 was re-allocated for replacement of the 26" steel Sunshine Line between Sunshine Hydro and 4th/Mapleton based on leaks and criticality. Inspection, installation of access manholes and rehabilitation or replacement of the existing cement mortar lining above Sunshine Hydro will now be Phase 2.

This project began in 2013. Phase 1 of the project is anticipated to complete construction in early 2015. Phase 2 of the project will begin in 2014 and extend through early 2016.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated. County 1041 exemption received.

**Relationship with Other Departments**

Coordinate with OSMP and Boulder County on access and traffic control.  
Work with City Transportation on surface restoration.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$125,000
Acquisition	
Construction	\$1,875,000

**Total Project Cost** **\$2,000,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$2,000,000
Funding Total	(\$2,000,000)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0
<b>Total Funding Plan</b>	<b>\$2,000,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Utility Billing Computer System Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	411453	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project is for the upgrade of the existing Utility Billing Computer System. The project is expected to begin in 2015 and be completed in 2016.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input checked="" type="checkbox"/> Maintains and enhances city's business systems            | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

This project will be coordinated with IT and Finance.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$25,000
Acquisition	\$0
Construction	\$430,000
<b>Total Project Cost</b>	<b>\$455,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$455,000
Funding Total	(\$455,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$100,000	\$0	\$0	\$0	\$0	\$125,000
Stormwater & Flood Management Utility Fund	\$0	\$50,000	\$0	\$0	\$0	\$0	\$65,000
Wastewater Utility Fund		\$50,000	\$0	\$0	\$0	\$0	\$65,000
<b>Subtotal All Funds</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$255,000</b>

**Total Funding Plan** **\$455,000**

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Existing operating budget

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Water System Security Upgrades

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	411440	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project will provide funds for water system security upgrades. New Federal guidelines call for increased protection of drinking water systems from terrorist and other threats. City staff recently updated the water system security vulnerability assessment. Numerous recommendations for security vulnerability improvements have been made.

This project will begin in 2015.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

OSMP and Boulder County for access , permitting and facility location.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$84,000
Acquisition	\$724,434
Construction	

**Total Project Cost** **\$808,434**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$808,434
Funding Total	(\$808,434)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$150,000	\$150,000	\$150,000	\$150,000	\$90,000	\$118,434
<b>Total Funding Plan</b>		<b>\$808,434</b>					

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$20,000 **Funding Source:** Water Utility Fund, Existing Water Quality budget

**Additional Annual O&M Description:**  
Maintain panels and replace instruments.



**Project Name:** Water Transmission Facilities (Zone 1, East Side of Boulder)

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Areas I & II
<b>Project Number:</b>	411002	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project provides for the rehabilitation and improvement to the Zone 1 transmission piping of the city's water system. An extensive network of transmission piping exists, some of which is over 50 years old. It is projected this piping will require replacement or other rehabilitation. In some cases deficiencies in this system have been identified due to fire flow requirements of the Insurance Services Office (ISO).

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated

**Relationship with Other Departments** **Change from Past CIP**

CDOT, OSMP and Boulder County for access.  
Coordinate with Transportation CIP for surface restoration.

**Estimated Total Cost** **Unfunded Amount**

<b>Project Cost</b>		<b>Unfunded Amount</b>	
Planning	\$50,000	Project Cost Total	\$250,000
Acquisition		Funding Total	(\$250,000)
Construction	\$200,000		
<b>Total Project Cost</b>	<b>\$250,000</b>	<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0
<b>Total Funding Plan</b>	<b>\$250,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Water Transmission Facilities (Zone 2, Central Boulder)

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Multiple Subcommunities
<b>Department:</b>	PW/ Water Utility	<b>BVCP Area:</b>	Area II
<b>Project Number:</b>	411004	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	

**Project Description**

This project provides for the rehabilitation and improvement to the Zone 2 transmission piping of the city's water system. An extensive network of transmission piping exists, some of which is over 50 years old. It is projected this piping will require replacement or other rehabilitation.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

Coordinate with Transportation CIP for surface restoration.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$100,000
Acquisition	
Construction	\$400,000
<b>Total Project Cost</b>	<b>\$500,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$500,000
Funding Total	(\$500,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$250,000	\$0	\$0	\$250,000
<b>Total Funding Plan</b>	<b>\$500,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Water Transmission Facilities (Zone 3, West Side of Boulder)

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	411005	<b>Map Number:</b>	
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project provides for the rehabilitation and improvement to the Zone 3 transmission piping of the city's water system. An extensive network of transmission piping exists, some of which is over 50 years old. It is projected this piping will require replacement or other rehabilitation. In some cases deficiencies in this system have been identified due to fire flow requirements of the Insurance Services Office (ISO).

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

CDOT, OSMP and Boulder County for access. Coordinate with Transportation CIP for surface restoration.

**Change from Past CIP**

\$1,200,000 added to fund replacement of problematic main.

**Estimated Total Cost**

**Project Cost**

Planning	\$50,000
Acquisition	
Construction	\$200,000

**Total Project Cost** **\$250,000**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$250,000
Funding Total	(\$1,450,000)

**Total Unfunded** **(\$1,200,000)**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$1,200,000	\$0	\$0	\$250,000	\$0
<b>Total Funding Plan</b>						<b>\$1,450,000</b>	

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget.



**Project Name:** Waterline Replacement

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	System-wide
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	System-wide
<b>Project Number:</b>	411389	<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project provides funds for the annual reconstruction of waterlines that are part of the city's water distribution system. Many of the city's existing waterlines are corroded or otherwise deteriorated and must be replaced. The city currently experiences approximately 60-80 main breaks per year and these cause unplanned outages in water service as well as disruption to vehicle travel and damage to public and private property. Although the number of main breaks is not considered excessive, the average age of the city's distribution system is over 40 years and it is anticipated that substantial funds will be required to maintain a functioning water distribution system over time. In some cases deficiencies in this system have been identified due to fire flow requirements of the Insurance Services Office (ISO).

Funding for annual waterline replacement continues at a rate of \$2,100,000 in 2012 dollars, escalated by an inflation index annually. This should be sufficient to maintain the current service level, as defined by water main breaks, over the next decade.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

Coordinate with Transportation CIP for surface restoration.

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$2,432,909
Acquisition	
Construction	\$21,896,179

**Total Project Cost** **\$24,329,088**

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$24,329,088
Funding Total	(\$24,329,088)

**Total Unfunded** **\$0**

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$3,642,831	\$3,224,000	\$3,352,960	\$3,487,078	\$3,626,562	\$3,771,624	\$3,224,033
<b>Total Funding Plan</b>	<b>\$24,329,088</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Watershed Improvements

**Project at a Glance**

<b>Project Type:</b>	Capital Maintenance	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>		<b>Map Number:</b>	0
<b>CEAP Required:</b>	No	<b>CEAP Status:</b>	NA

**Project Description**

This project will provide funding for miscellaneous improvements in the city's Silver Lake watershed including valve and mechanical equipment upgrades as well as monitoring system rehabilitation or replacement in response to the 2008 Source Water Waster Plan recommendations.

This project will begin in 2014 at the yearly costs per year until 2016 (i.e. 3 years), as follows:

1. Planning: \$ 12,000
2. Land Acquisition: \$ 0
3. Construction: \$ 68,000
4. Total per year: \$ 80,000

The project is anticipated to be completed in 2016 (i.e. 3 x \$ 80,000 = \$ 240,000).

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

No additional public process is anticipated.

**Relationship with Other Departments**

None

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$10,000
Acquisition	
Construction	\$250,000
<b>Total Project Cost</b>	<b>\$260,000</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$260,000
Funding Total	(\$260,000)
<b>Total Unfunded</b>	<b>\$0</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$80,000	\$80,000	\$0	\$0	\$0	\$100,000
<b>Total Funding Plan</b>	<b>\$260,000</b>						

**Additional Annual Operations and Maintenance**

**Additional Annual O&M:** \$0 **Funding Source:** Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget



**Project Name:** Wittemyer Ponds

**Project at a Glance**

<b>Project Type:</b>	Capital Enhancement	<b>Subcommunity:</b>	Outside Planning Area
<b>Department:</b>	PW/ Water Utility	<b>BVCPArea:</b>	Outside Planning Area
<b>Project Number:</b>		<b>Map Number:</b>	59
<b>CEAP Required:</b>	Yes	<b>CEAP Status:</b>	No

**Project Description**

This project provides funding for the lining of Wittemyer Ponds based on the probability that Denver Water will receive a permit for the enlargement of Gross Reservoir in the near future. Based on the Intergovernmental Agreements (IGA) between Boulder, Lafayette and Denver Water, Boulder has agreed to use its water rights to fill the Environmental Pool to the degree that Lafayette is unable to do so with its water rights. Long term, Boulder's Open Space and Mountain Parks Department (OSMP) would provide the necessary water rights and the Water Utility would provide space in a lined Wittemyer Ponds complex. However, because OSMP currently doesn't have any water rights that can readily be used for this purpose, the Water Utility would use its CBT and Windy Gap water to the extent it doesn't affect municipal water deliveries. OSMP would pay the Utilities Division for the water that is used solely for this purpose since some of the water could be leased to downstream users. Detailed plans and studies are needed to determine how this will be accomplished. Longer term, OSMP would either change the water rights associated with some of its ditch company shares, or acquire new water. Although lining of Wittemyer is not necessarily required to get the Gross program underway, it would be useful to recapture the dedicated instream flow water. Without the lined ponds, any water used for Gross will be lost and more overall water will be needed.

Funding allocated in the current CIP is for planning and design only. Construction funding (\$4,945,798 unfunded in the City 2015-2020 CIP) is allocated in the Water Utility 20-year CIP in 2021 and is expected to be fully allocated in 2020 in the City 2016-2021 CIP.

This project will begin in 2019 and is anticipated to be complete in 2021/2022.

**Relationship to Guiding Principles**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Consistent with Master Plans                              | <input checked="" type="checkbox"/> Sustains or improves existing assets  |
| <input checked="" type="checkbox"/> Achieves Community Sustainability goals                   | <input checked="" type="checkbox"/> Maximizes efficiency and demonstrates positive cost/benefit   |
| <input checked="" type="checkbox"/> Includes sufficient funding for operation and maintenance | <input checked="" type="checkbox"/> Fund includes sufficient reserves   |
| <input type="checkbox"/> Maintains and enhances city's business systems                       | <input checked="" type="checkbox"/> Meets legal mandates, improves public safety, leverages external investments, promotes community partnerships, or improves efficiency |
| <input checked="" type="checkbox"/> Provides capacity and flexibility in long term planning   |   |

**Public Process Status, Issues**

The strategy for public process will be defined during next year's budget process.

**Relationship with Other Departments**

Open Space & Mountain Parks

**Change from Past CIP**

**Estimated Total Cost**

**Project Cost**

Planning	\$592,685
Acquisition	
Construction	\$4,926,849
<b>Total Project Cost</b>	<b>\$5,519,534</b>

**Unfunded Amount**

**Unfunded Amount**

Project Cost Total	\$5,519,534
Funding Total	(\$592,685)
<b>Total Unfunded</b>	<b>\$4,926,849</b>

**Capital Funding Plan**

Source	Prior to 2015	2015	2016	2017	2018	2019	2020
Water Utility Fund	\$0	\$0	\$0	\$0	\$0	\$100,000	\$492,685
<b>Total Funding Plan</b>	<b>\$592,685</b>						

**Additional Annual Operations and Maintenance**

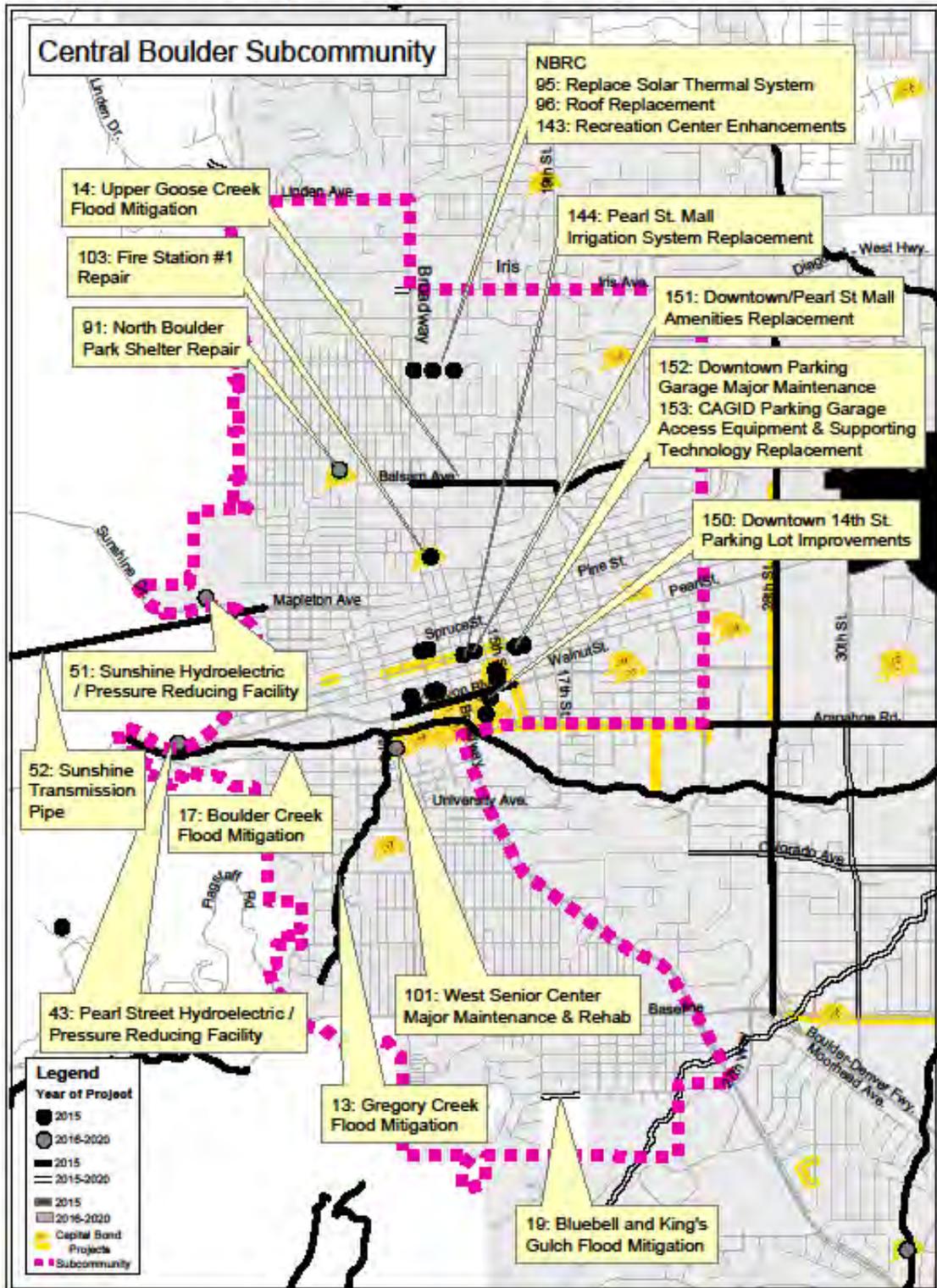
**Additional Annual O&M:** Funding Source: Water Utility Enterprise Fund

**Additional Annual O&M Description:**

No increase, funded by existing operating budget.

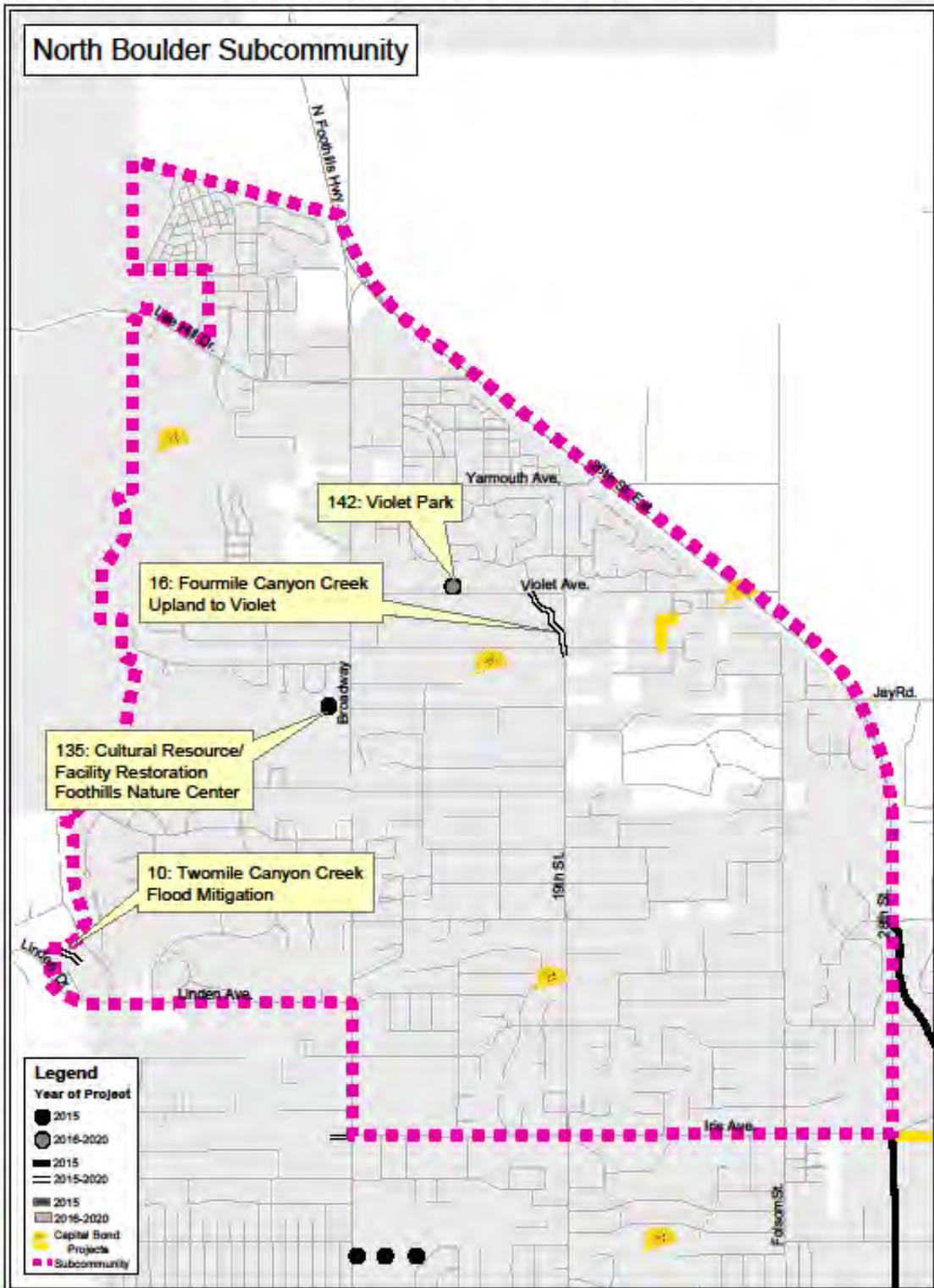


### City of Boulder Capital Improvement Projects, 2015 - 2020



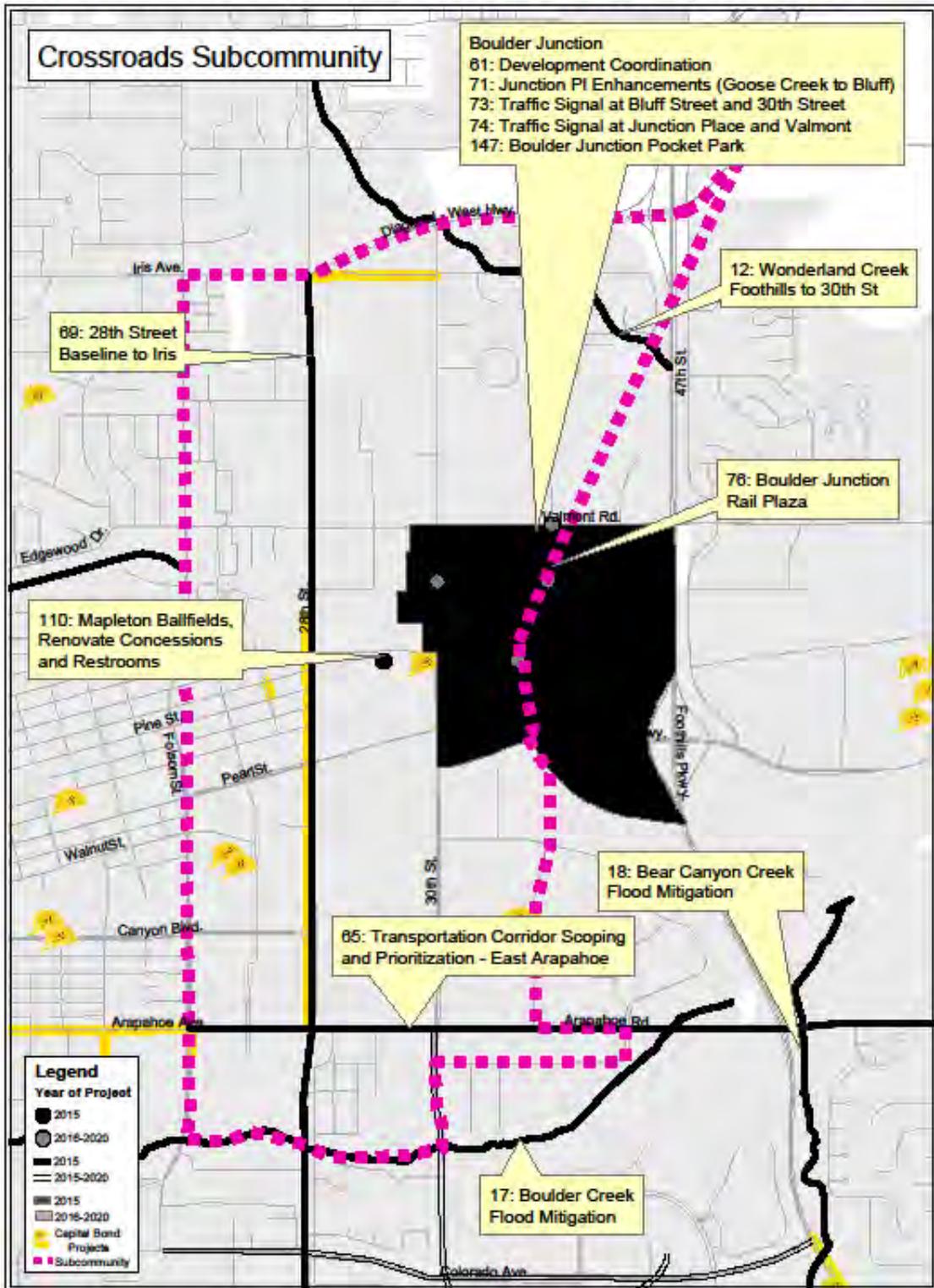


### City of Boulder Capital Improvement Projects, 2015 - 2020



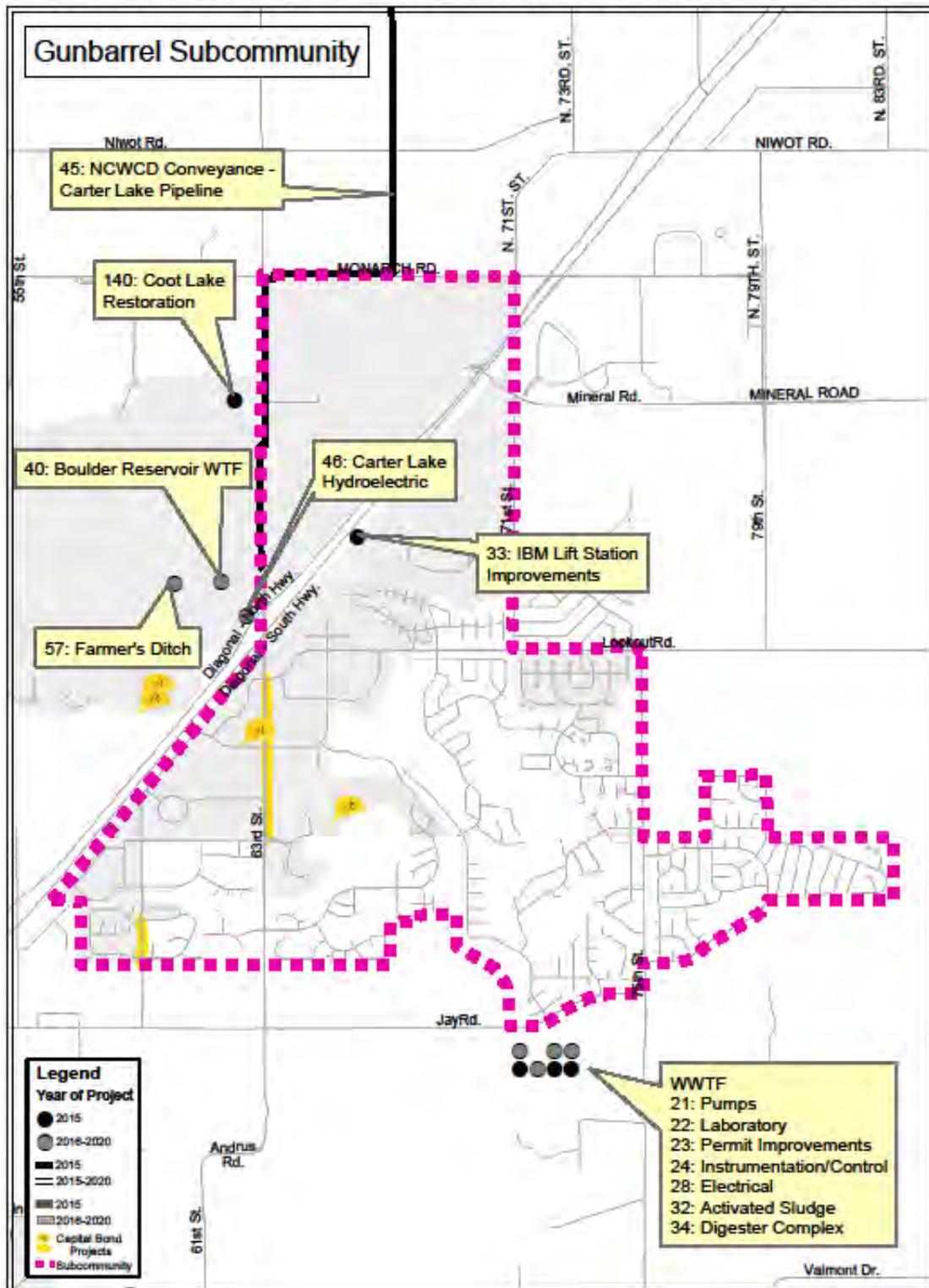


### City of Boulder Capital Improvement Projects, 2015 - 2020



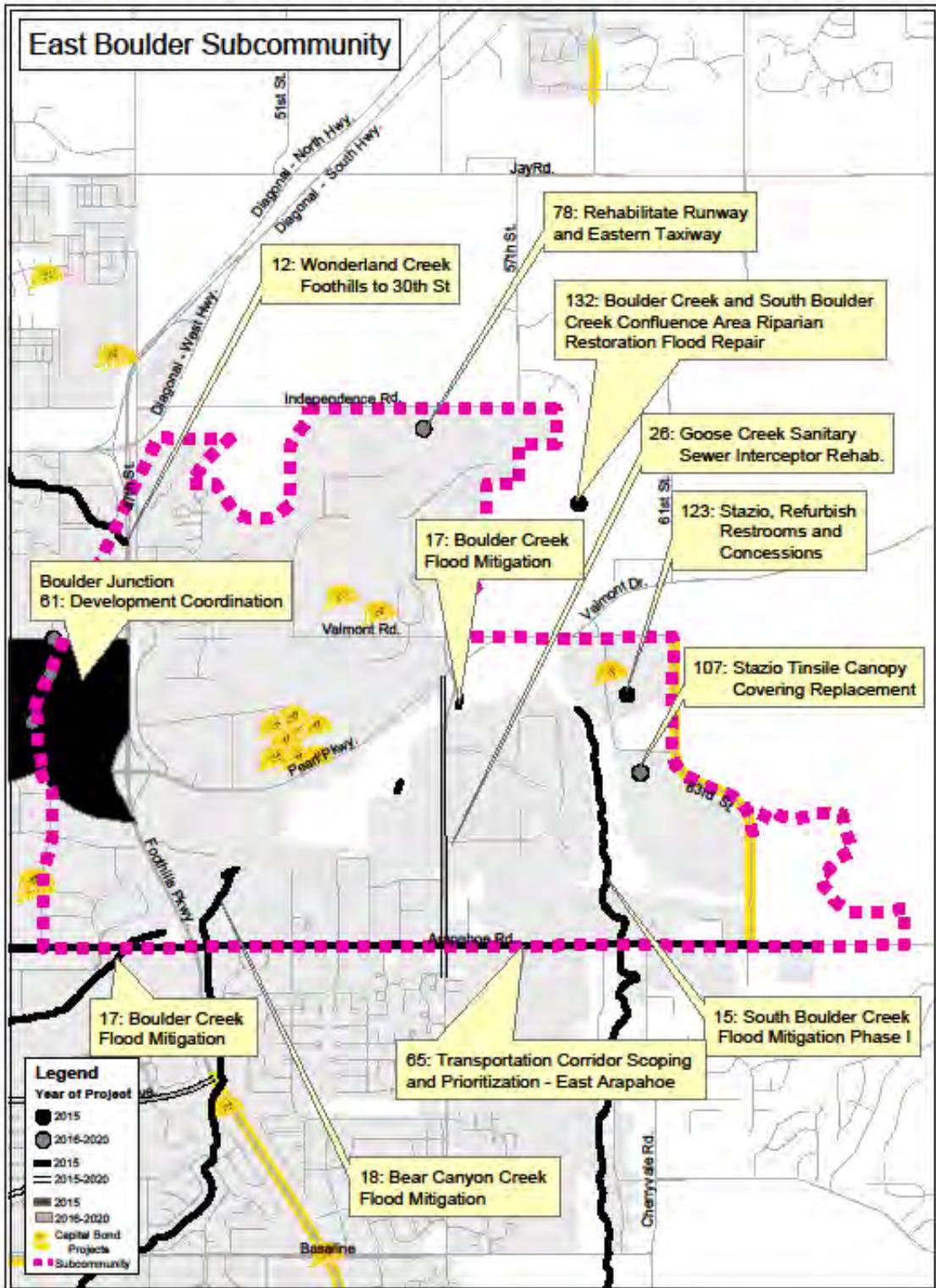


### City of Boulder Capital Improvement Projects, 2015 - 2020



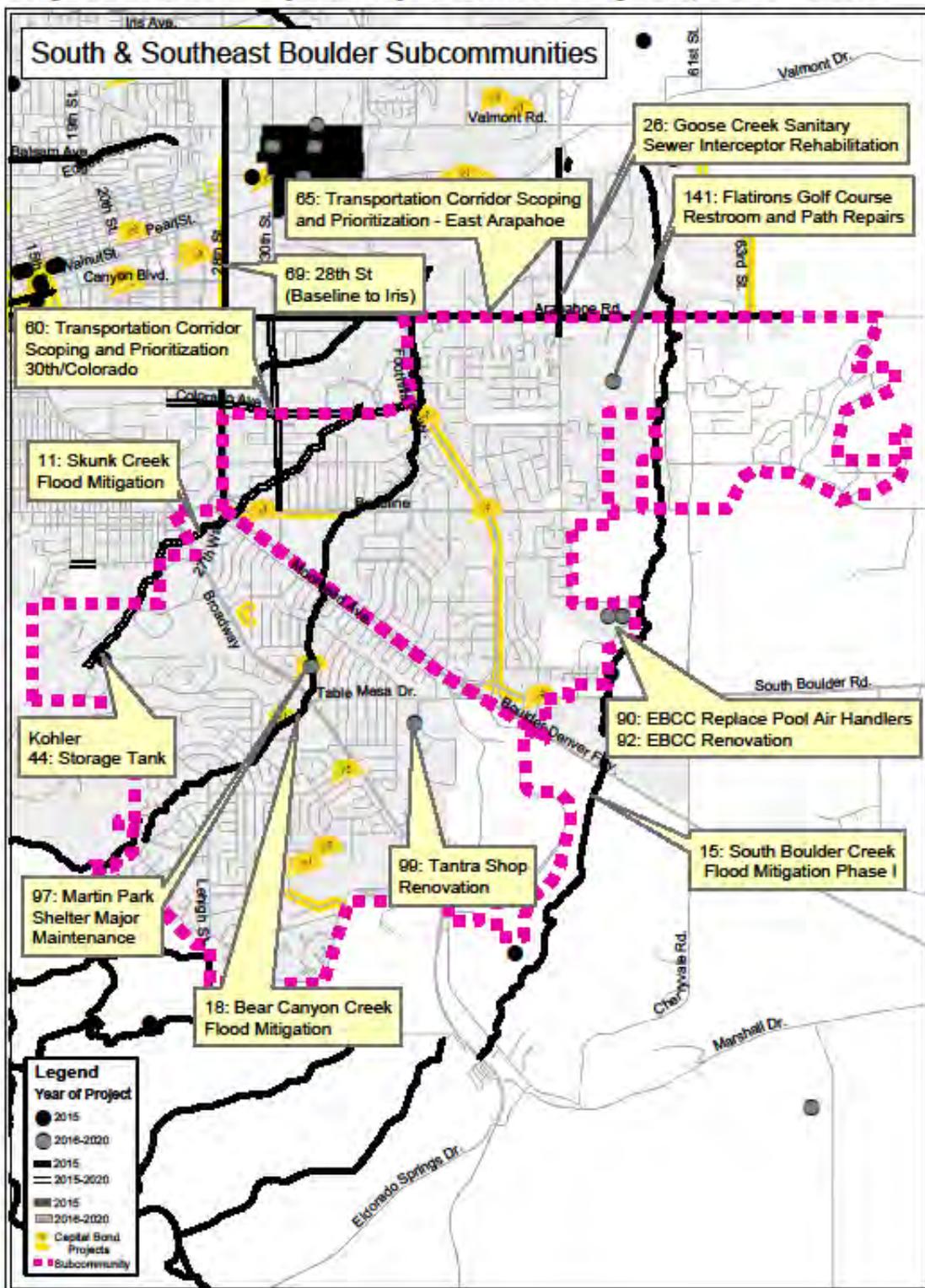


### City of Boulder Capital Improvement Projects, 2015 - 2020





### City of Boulder Capital Improvement Projects, 2015 - 2020



## Appendix B, UNFUNDED PROJECTS

2015–2020 Capital Improvement Program

The provision of adequate urban facilities and services to support the community's quality of life is a core tenet of the Boulder Valley Comprehensive Plan. The Capital Improvement Program is a major tool for coordinating and targeting public capital expenditures within changing budget constraints. The goal is to maintain and, in some cases, enhance service levels and standards over time, with new growth paying a fair share of the costs.

### Historical Funding Patterns in Boulder

The city has a rich history of investing in the community and its quality of life. Prior to the 2000s, the community consistently invested significant resources in capital facilities. Funding was provided through a combination of ballot measures for specific facilities and land purchases, federal funds, and discretionary revenues. Examples of investments include:

- Buying park lands and open space
- Providing and upgrading public facilities such as libraries, recreation centers and sports fields
- Building places for community business and services such as the municipal campus buildings, and operations centers, for example, the “Yards”
- Building multimodal community connections such as the Greenways system, bikeways, and intersection improvements
- Investing to create special places like the Pearl Street Mall and Chautauqua area.
- Today, community members and visitors continue to benefit from these many facilities and lands on a regular basis.

The 2000s, by contrast, were often economically difficult at local, regional, national, and even global levels. The cost of delivering services and taking care of our infrastructure has increased dramatically. Global demand has resulted in energy and construction costs far outpacing the consumer price index. While there has been some relief in material costs recently, there is no sign



that there will be a return to historic prices. At the same time, there have been two economic declines, increased regional competition, and cultural change in shopping habits impacting the revenue side of the equation. The city's revenue in absolute dollars has not returned to where it was in 2000. Furthermore, the purchasing power of current funding is significantly less than 2000.

### **Planning Efforts to Increase Capital Funding**

In 2011 the city engaged in a capital investment strategy. At council's direction, staff engaged a stakeholder group and collected public feedback on capital investment in the city. The result of this was a voter approved capital bond (see Special Highlight: Capital Improvement Bond section of this document), which has provided over \$50 million dollars for capital investment in the city. The 20-year debt service for this is being covered from operating General Fund dollars.

A round two of the capital investment strategy was put on hold in 2012, as costs and scopes for additional potential capital projects were not yet fully known and polling did not support another ballot issue at that time.

The city has also been involved in developing a Civic Area Plan, which maps out potential investment, including significant capital investment, in Boulder's Civic Area. And most recently, the city has begun to update the long-term financial planning started with the Blue Ribbon Commissions One and Two, which identified the structural gap between revenues and expenditures long-term. This effort, the Comprehensive Financial Strategy (CFS) project, included a look at capital needs across the city. The CFS project started by looking at capital needs and making recommendations to council for short-term capital project funding. Additionally the CFS is looking at larger infrastructure investment needs, long-term capital deficiencies, placemaking capital investment and long-term operating needs. The CFS brings together the overall long-term financial strategic planning of the city, recognizing the interconnectedness of capital investment and operating planning to provide the most efficient and effective public service, meeting community needs now and in the future.

The first phase of CFS work has led to council consideration of a Pay As You Go ballot issue to fund a few key areas of capital investment in the city, including efforts to increase safety, revitalize the University Hill, begin catalytic projects in the Civic Area and invest in culture and the arts in the city.



A second phase on CFS work will include prioritizing additional capital needs and desires and bringing forward items for consideration of a larger scale (and possibly longer-term) capital bond, to be funded by new revenues.

Finally, in conjunction with ongoing operating analysis and the review of the long-term financial structural gap, the city will be exploring other options, such as creating a capital fund with annual contributions from ongoing revenues, to address capital needs.

### **Unfunded Projects**

In each department's section of this document, departments have identified key unfunded projects and emerging needs. The following tables provide a more comprehensive list of unfunded capital needs in the city. These items have been identified over time from the capital investment strategy work, department strategic and master plans, CFS analysis, information learned from the September 2013 Flood, and public input. The lists are not exhaustive (and dollar amounts are very rough estimates), but rather they illustrate the challenges and opportunities that lie ahead. The items are categorized into the three themes developed in the CFS process but has not yet been prioritized. Prioritization and refining efforts will be ongoing as a part of continued CFS work.

Table 16-1: Unfunded Projects — Emergency Preparedness

Department	Project	Total Cost	Est O&M	Description
Fire	Fire Facilities - Station 3/ Administration / Storage	\$ 19,200,000	\$ 381,000	Relocate Fire Station #3 out of the 100 year floodplain, and combine and co-locate the new Fire Station #3, planned at 17,000 sq ft, and Fire Administration Offices planned at 11,000 sq ft, and construct storage for fire vehicles and equipment into one new facility. Fire administration offices currently occupy 3,737 square feet in the Public Safety building. A space analysis identified the space need of at least 10,000 square feet. The storage building project planned at 10,000 sq ft would provide a facility to efficiently store reserve fire apparatus and stockpile of emergency supplies on existing land adjacent to Fire Station #7. The projected building cost for this project is \$10.6 million plus estimated land cost of between \$2,500,000 and \$8,600,000.
Fire	Replace Fire Station Alerting Equipment	\$ 500,000	\$ 60,000	Replace the existing fire station alerting system. The current fire station's alerting system to notify fire fighters of an emergency is accomplished using a homemade system of decades old equipment. Even with repairs made in 2013 the existing alerting system remains fragile and will not allow the fire department to take full advantage of the new Computer Aided Dispatch (CAD) system.
Fire	Fire Training Center Phase 3	\$ 1,200,000	\$ -	Add one classroom, five offices, a conference room and one "dirty" classroom that were all deleted from the original project scope to meet budget. This project is planned at 4,000 square feet.
Fire	Fire Training Center Storage Building	\$ 2,200,000	\$ 45,000	Provide a 10,000 sq ft storage facility for training props and equipment
Fire	Replace Fire Station 4	\$ 5,300,000	\$ 132,000	Constructed in 1967, Fire Station 4, located at 4100 Darley Avenue, is too small to remain functional. Fire engines have to be specially designed to fit into the garage. This station encompasses 2,000 square feet. A new station is planned at 11,000 square feet. Replacing this facility would allow ADA compliance, provide energy efficiency, increase operational effectiveness and improve conditions for the fire crews living there, and allow any of the city's fire engines to operate out of the station. The projected building cost for this project is \$3.3 million plus estimated land cost between \$1.0 million and \$2.0 million.
Fire	Replace Fire Station 6	\$ 3,300,000	\$ 132,000	The area around Fire Station 6, located at 5145 N 63rd Street, has experienced significant development since the station was constructed in 1979. The station is too small and not energy efficient, despite extensive work by the city's Facilities and Asset Management department. A new station is planned at 11,000 square feet. Replacing this fire station will allow ADA compliance, provide energy efficiency, and increase operational efficiency and safety for firefighters. The city owns two acres of land at the current station site.
Fire	Replace Fire Station 2	\$ 8,100,000	\$ 184,000	Constructed in 1959 and located at 2225 Baseline Road, Fire Station 2 is too small to accommodate its crew, engines, and equipment. The station encompasses 4,752 square feet. A new station is planned at 15,333 square feet. Replacing this facility would allow ADA compliance, provide energy efficiency, increase operational effectiveness, and improve conditions for the fire crews living there. The projected building cost for this project is \$4.6 million plus estimated land cost between \$1.5 million and \$3.5 million.



**Table 16-1: Unfunded Projects — Emergency Preparedness (Cont.)**

Department	Project	Total Cost	Est O&M	Description
Fire	Replace Fire Station 5	\$ 6,100,000	\$ 184,000	Relocate and expand Fire Station 5 currently located at 4365 19th Street to provide ADA compliance, energy efficiency, increase operational effectiveness, and improve conditions for fire crews living there. A new station is planned at 15,333 square feet. The projected building cost for this project is \$4.6 million plus estimated land cost between \$1.0 million and \$1.5 million.
Fire	Remodel Fire Station 1	\$ 2,800,000	\$ -	Remodel and expand Fire Station 1 located at 2441 13th Street adding 9,200 square feet. This will allow ADA compliance, improve energy efficiency, increase operational effectiveness, and improve conditions for crews living there.
Fire	Remodel Fire Station 7	\$ 1,800,000	\$ -	Remodel and expand Fire Station 7 located at 1380 55th Street adding 6,000 square feet to provide ADA compliance, improve energy efficiency, increase operational effectiveness, and improve conditions for crews living there.
IT	Data Backup and Disaster Recovery Upgrades	\$ 175,000	\$ 8,750	This project is a companion to the Data Backup and Disaster Recovery project reflected as a funded capital maintenance project. The element reflected here relates to the unfunded needs for this system on the horizon. As the data storage demands of the city organization continue to grow - we need to purchase additional capacity to support that demand. Specifically - it is anticipated that in 2015 and again in 2017 we will need to buy additional capacity on our backup software system. In 2019, when the system is replaced it is likely that a much higher capacity storage system will be needed to support the data needs of the city. This is anticipated due to the rapidly expanding data needs including extended file retention and storage of larger multimedia files (photo, video and audio). While the capital maintenance project has funding for the replacement of a similar system in the 2018/2019 timeframe - significantly increase capacity is not funded.
Police	City-wide radio infrastructure	\$ 1,500,000	\$ 150,000	Over the next 5 years, much of the city's radio infrastructure will need to be replaced either because of age, or because of new unfunded narrow-banding mandates from the Federal Communications Commission (FCC).
Police	Incident Command Vehicle (ICV)	\$ 450,000	\$ 52,650	The department has had the current ICV since 2000 it is scheduled to be replaced in 2016 but increasing technology for this type of vehicle, computers on site, etc., have the department falling short when it will be time to replace it.
Police	Gold Elite Radio Consoles	\$ 1,500,000	\$ 150,000	Over the next 5 years new narrowing banding mandates will be required by the FCC, these systems will be needed in the Communications Department.
Police	Body Cameras	\$ 72,000	\$ 14,000	New technology is becoming a necessity for departments in protecting both the officers and the community that they serve.
Police	Radios - Police Only	\$ 208,000	\$ 41,600	Police radios will need to be replaced by 2018 because of the new narrow banding mandate from the FCC
Police	Pack sets - Police Only	\$ 100,000	\$ 20,000	Police pack sets will need to be replaced by 2018 because of the new narrow banding mandate from the FCC
Police	Public Safety Building Expansion and IT Consolidation	\$ 7,900,000	\$ 150,000	Construct a 9,700 sq ft expansion for Police functions, and a 6,400 sq ft addition for IT offices, with additional parking for 30 to 50 spaces in a parking garage, along with associated renovations to the existing facility.



**Table 16-1: Unfunded Projects — Emergency Preparedness (Cont.)**

Department	Project	Total Cost	Est O&M	Description
Police	Renovation of existing space	\$ 1,610,000	\$ 48,300	The department has been in the existing space since 1990, with only minor repairs being made. Renovation of the existing space is needed due to the age of the building.
PW-Utilities	Boulder Reservoir Water Treatment Facility - Unfunded	\$ 4,651,865	\$ 150,000	This project will provide funds for on-going maintenance and rehabilitation of the Boulder Reservoir Water Treatment Facility. Improvements include pre-oxidation, filter valves and actuators, washwater recovery tank expansion, stie pavement, polymer feed system and emergency power.
PW-Utilities	South Boulder Creek Flood Mitigation Phase II	\$ 15,000,000	\$ 250,000	This project would be the second phase of flood mitigation improvements along South Boulder Creek. The overall project is to mitigate flooding along South Boulder Creek from U.S. 36 to the confluence with Boulder Creek, based on recommendations in the Comprehensive Flood and Stormwater Master Plan. Flood mitigation alternatives have been evaluated and a draft recommendation is currently going through a public review process. Information has been presented in two open houses, twice to the Water Resources Advisory Board (WRAB), and at several stakeholder meetings. The proposed alternative includes construction of a regional flood detention facility located just south of US36, along with downstream capacity improvements. This alternative would eliminate the overtopping of US36 during a 100-year storm event and greatly reduce downstream flood risks. It is anticipated that the project will be designed and constructed in three phases, each approximately \$15 million. The recommended first phase would construct the regional flood detention facility at US36. Funding shown in the CIP is for the first phase and is intended as seed money in the hopes of securing outside grants or federal money to complete the selected alternative. Additional phases are, as of yet, unfunded.



**Table 16–2: Unfunded Projects — Infrastructure Deficiencies**

Department	Project	Total Cost	Est O&M	Description
PW-FAM	Reduce Maintenance Backlog	\$ 4,300,000	\$ 2,200,000	FAM's current backlog is \$7.3M and it's expected to grow to \$15M by 2020 under current funding. With an infusion of capital funding and increased annual funding, FAM can maintain the funding goal of maintaining the backlog below \$4M, which represents an overall "good" rating of the 135 facilities under FAM's purview.
IT	Network Hardware Upgrades and Enhancements	\$ 118,000	\$ 14,500	This project reflects the unfunded needs of the Network Hardware system. Over the next several years the following needs are anticipated: 2014 Switch for redundant internet connection (\$10,000) 2014/2015 additional Wireless Access Points to continue network build out (\$10,000) 2015 Redundant WAP controller (\$38,000) 2015 Netscaler Appliance Hardware (\$35,000) 2015 Project Planning (\$25,000)
IT	Security Infrastructure for ancillary devices	\$ 95,004	\$ 15,000	This project funds the network and security infrastructure necessary to support a new class of technology equipment. Functions that were previously not computerized are now requesting computer resources, greater than those available as excess capacity on the computer network. We have the need to increase the capacity of the network by 364 ports to support this equipment.
IT	Office Productivity Suite	\$ 1,280,000	\$ 256,000	The office productivity suite is in need of upgrade and replacement. Some funding exists in the CRF for this purpose, but it is not believed to be sufficient to fund the entire purchase or the continuing on-going costs of the upgraded tools. This project would bring the city's desktop tools current, and implement a plan to stay on more current releases going forward. This project may also include a city-wide collaboration tool.
PW-FAM	Parks Operations Colocation with Public Works	\$ 5,200,000	\$ 32,000	Relocate the Park Operations and Forestry service area into the Municipal Service Center (city yards) to part of the Valmont City Park, Phase 2. Additional structures, renovations of existing structures, and additional parking would be constructed.
P&R	Pearl Street Mall Improvements	\$ 5,852,000	\$ (90,200)	Design and development required for revitalization improvements to the Pearl Street Mall to address aging civic space improvements such as: tree, amenity and hard surface paver replacements, new signage and seating amenities and other improvements necessary to maintain a dynamic and engaging public venue and economic attraction for the community.
PW-FAM	City-Wide Energy Efficiency Projects and Programs	\$ 2,000,000	\$ 200,000	Complete energy efficiency projects and programs including: replacing single pane windows with double pane windows at the Municipal Building, Fire Stations, and other city facilities; installing building automation systems to remotely monitor and control building settings and performance; and fund a contracted service to provide 24/7 monitoring and analysis of a building's energy performance to maintain peak performance of existing systems. These are projects which could not be accomplished as part of the energy performance contracts due to the longer payback periods.



**Table 16-2: Unfunded Projects — Infrastructure Deficiencies (Cont.)**

Department	Project	Total Cost	Est O&M	Description
P&R	Community Park Enhancements	\$ 8,500,000	\$ 89,840	Design and development of enhancements to community parks including: Foothills Community Park, Harlow Platts Community Park, and East Boulder Community Park. Each of these Community Parks have planned future phases that include additional amenities and recreation areas not including athletic fields.
P&R	Recreation and Community Center Enhancements	\$ 14,000,000	\$ -	The Boulder Parks and Recreation Master Plan outlines various improvements and enhancements to all recreation facilities and centers within the three funding priorities. Enhancements to recreation centers allow the department to meet critical goals relative to the community health and wellness and ensure facilities are maintained at an appropriate standard according to the department's asset management program. Proposed projects will provide facility upgrades and operational efficiencies to fitness areas, aquatic areas and sports facilities. Enhancement projects may include: pool renovations, fitness and program area expansions, new concession areas, weight room renovations and increased multi-purpose rooms. Cost of enhancements will range from \$500,000 to \$14,000,000 and can be phased based upon available funding. Enhancements include: North Boulder Recreation Center (Expansion of weight room and program space, front desk remodel, new recycling facilities); East Boulder Recreation Center (Facility/entry remodel, additional gymnasium, multi-purpose art room and program areas, outdoor covered patio, concessions, expanded leisure pool and weight room, remodel of office/meeting space); South Boulder Recreation Center (Leisure/therapy pool, raised indoor running track, high-tech teen area, concessions area, program, office space and multi-purpose rooms, indoor playground, child care).
P&R	Athletic Field Improvements	\$ 16,800,000	\$ 61,480	Design and development of new or improved diamond and rectangular athletic fields at existing parks and rec facilities in support of various team sports leagues and multi-use practice field needs. The following projects represent investments to improve athletic fields and associated infrastructure located at various locations throughout the city including Stazio Complex, Plesantview and Foothills Community Park.
P&R	Scott Carpenter Pool and Park Enhancements	\$ 7,330,285	\$ 28,500	Pending the outcome of the Parks and Recreation Aquatics Feasibility study, this project would provide funding for Scott Carpenter Pool improvements including: ADA compliant restroom facilities and bathhouse, landscape, turf, irrigation & hardscape areas, wetland regulatory compliance, improved outdoor pool plaza areas, upgraded pump house and filtration system, parking lot & access upgrades. Park improvements may include the land acquisition of the existing fire station at the corner of Arapahoe and 30th Street and redesign of the corner parcel to include a refurbished skate park, new park entry signage, landscape and irrigation improvements and the redevelopment of the existing pool to a new use.
DUHMD	University Hill Commercial Area Street Tree Irrigation System	\$ 520,000	\$ 7,000	The project is to install an irrigation system for all the street trees within the University Hill Commercial Area. The Street Tree Irrigation project would protect and enhance the existing investment of street trees in the commercial district, would in turn support the Economic and Environmental Community Sustainability Goals and create efficiencies in maintenance and operations.



**Table 16-2: Unfunded Projects — Infrastructure Deficiencies (Cont.)**

Department	Project	Total Cost	Est O&M	Description
Library	Library - Carnegie, Repair Masonry on Historic Structure	\$ 275,000	\$ -	Complete the masonry repairs identified for the Carnegie Branch Library for Local History, constructed in 1906.
PW-Transportation	Quiet Zone Implementation at Railroad Crossings	\$ 5,000,000	\$ -	In response to noise concerns expressed by existing Boulder residents as well as new mixed-use, transit-oriented development opportunities adjacent to the existing Burlington Northern Santa Fe (BNSF) railroad corridor, the City of Boulder is currently working with the BNSF Railway Company (BNSF), Colorado Public Utilities Commission (PUC), Federal Railroad Administration (FRA) and other agency partners such as Boulder County and the Colorado Department of Transportation to develop a plan for railroad Quiet Zones. Based on the initial studies, the cost estimate for implementing quiet zones at the 10 railroad crossings within and near the City of Boulder, including several crossings located in Boulder County, is approximately \$8 million. These cost estimates are very preliminary, and unable to be refined until additional consultation with BNSF, PUC and FRA.
IT	Video Conferencing Capability	\$ 272,850	\$ 68,213	This project would fund a pilot and full rollout of Video conferencing technology throughout the city. There is greatly increased demand for this type of capability. This system would add on to the city's existing phone system. (VoIP - Voice over Internet Protocol)
PW-FAM	Repair Municipal Service Center Parking Lots	\$ 800,000	\$ 123,000	Repair badly deteriorated parking lot and pavement areas at the Municipal Service Center (MSC). A pavement survey conducted in 2010 identified numerous areas in the MSC lot as needing complete replacement or repair. The pavement is over 20 years old and has required numerous potholes filled, but the subbase layers of the pavement require a complete re-build of many areas.
PW-FAM	Repair Public Safety Building Parking Lot	\$ 500,000	\$ 32,000	Repair badly deteriorated parking lot and pavement areas at the Public Safety Building (PSB). A pavement survey conducted in 2010 identified numerous areas in the PSB lot as needing complete replacement or repair. Some temporary patching work was completed in 2010; however, those patches are not holding due to the need to replace the subbase layers of the pavement.
IT	TBBI Replacement	\$ 7,800,000	\$ 1,404,000	This is the estimated replacement cost for the software system we are currently installing. Projected replacement between 2028 and 2030.
IT	CRM Replacement	\$ 210,000	\$ 37,800	This is the replacement cost for the system that went live mid 2013. The project is planned for 2019 - 2022



Table 16-2: Unfunded Projects — Infrastructure Deficiencies (Cont.)

Department	Project	Total Cost	Est O&M	Description
IT	Web Site Refresh	\$ 100,000	\$ 18,000	This is the replacement cost for the system that went live mid 2013. The project is planned for 2019 - 2022
IT	Enterprise Document Management	\$ 1,557,000	\$ 280,260	This is the estimated replacement cost for the software system we are currently installing. Projected replacement between 2028 and 2030.
IT	LRP+ replacement	\$ 3,900,000	\$ 702,000	This is the estimated replacement cost for the software system we are currently installing. Projected replacement between 2028 and 2030.
Library	Main Library Renovation	\$ 5,347,900	\$ 10,620	Remodeling and refurbishing several areas of the Main Library, including the second floor areas and bridge, relocation of the Arapahoe entrance, addition of 1,000 sq ft. to the second floor, renovating the basement and north wing, and various HVAC and minor repairs.
P&R	Reservoir Recreation Enhancements	\$ 7,500,000	\$ (225,000)	Improvements and enhancements to the Boulder Reservoir remain a priority for the department and have been high priority in the Boulder Reservoir Master Plan as well as the Boulder Parks and Recreation Master Plan. The recent Capital Improvement Bond funding allowed for critical upgrades to be implemented and several more priorities still exist. Projects will continue to address infrastructure deficiencies on the South Shore through the design, remodel and/or replacement of existing structures (administrative, marina and maintenance buildings), demolition of existing security bldg, and a new boat and camp equipment storage structure facility. Other improvements may include upgraded ADA compliant playground areas, outdoor performance venue and beach areas, wayfinding and signage replacements, wildlife management (prairie dog) areas, feeder canal trail, West shore trail system, fencing and North shore/Coot Lake improvements. Cost of improvements will range from \$250,000 to \$7,500,000 depending upon the scope and available funding.
P&R	Play Court Improvements	\$ 4,825,000	\$ (25,000)	Combination of maintaining and repair of existing play courts and the addition of new facilities to meet current and future demand. Resurface, repair and/or reconstruction of existing and new tennis and basketball courts at specific park locations. Reconstruction of existing courts will include new sub-base material and concrete surface, seal and paint, fencing and netting as required.
P&R	Historic / Cultural Facility Improvements	\$ 1,250,000	\$ (15,000)	Conservation and preservation of important historical and cultural assets in the community that are managed by the Parks and Recreation Department. Ongoing historic/cultural facility upgrades associated with Chautauqua Park, Harbeck House, Pottery Lab, and the Columbia Cemetery will address ADA compliance needs, improved programming and office, storage and display area as needed for each facility asset.



**Table 16–2: Unfunded Projects — Infrastructure Deficiencies (Cont.)**

Department	Project	Total Cost	Est O&M	Description
PW-Transportation	14th & Walnut Multimodal Transportation Center	\$ 4,100,000	\$ 41,000	Complete improvements at Boulder's downtown transit center, including bus operational improvements, pedestrian improvements, building retrofits, improved bicycle access and accommodations. Expand the range of multimodal transportation opportunities, including electric vehicle charging, car share vehicles, a bike station, and a transportation resource center. Increments of funding have been received from CDOT FASTER Funds and there is a portion in CIS Round 1 Funding.
PW-Transportation	Arapahoe Reconstruction	\$ 3,000,000	\$ 30,000	Reconstruction of Arapahoe, 15th St. to Broadway.



**Table 16-3: Unfunded Projects — Placemaking**

Department	Project	Total Cost	Description
PW-Transportation	Boulder Junction - Transportation Connections -	\$ 12,200,000	This project would include the next phase of the unfunded transportation connections that are a part of the Transit Village Area Plan (TVAP) Transportation Connections Plan. Possible projects could include: Junction PI Bridge @ Boulder Slough, Junction PI Roadway (Boulder Slough to 32nd St/Prairie Ave) Boulder Slough Multi-use Path (30th St to 3100 Pearl), Boulder Slough Underpasses at BNSF Railroad and at Pearl Parkway, and Area Multi-use Path Connections.
P&R	Boulder Civic Area Park Improvements	\$ 8,700,000	This project will provide enhancements and improvements to park areas within the Boulder's Civic Area as identified within the Civic Area Plan. The Civic Area meets several key themes of the Boulder Parks and Recreation Master Plan and the implementation of the Civic Area Plan allows critical department goals to be met. The projects will range in scale and complexity while consistently meeting the guiding principles and implementation strategies identified through the Civic Area planning process. Most projects will address critical deficiencies by enhancing and replacing current park amenities such as park lighting standards, wayfinding and interpretive opportunities, enhancement of site furnishings, replacement of turf areas and improving site safety and security. More complex projects will include the development of passive recreation areas through paving, landscaping, outdoor art installation and activation areas that accommodate increased programming and events within the park areas.
P&R	Valmont City Park Phase 2 Development	\$ 23,580,507	



**Table 16-3: Unfunded Projects — Placemaking (Cont.)**

Department	Project	Total Cost	Description
PW-Transportation	Multi-use path connections - first tier projects	\$ 12,500,000	Complete a number of important pathway connections, including: Confluence area (where Boulder Creek and South Boulder Creek conflow), Wonderland Creek at 28th, Table Mesa park-n-Ride, smaller missing links in the system. The completion of the first and second tier projects would represent significant progress towards completing the city's pathway system.
Human Services	Demolition and Redevelopment of West Senior Center	\$ 28,000,000	This project is part of the Civic Area plan implementation. The project is to demolish the existing West Senior Center building, expand the footprint and build up three stories. The current facility is only 15,800 square feet and does not make efficient use of either the lot or interior space. The new building would include a 21st century senior center as envisioned in the civic area plan and include space to co-locate all human services department programs as a one-stop shop for human services. This would enhance customer service to the community while adding critical office space on the municipal campus.
PW-FAM	Civic Area Projects - City Service Facilities Only	\$ 39,000,000	Based on the implementation strategy for the Civic Area Plan - this could include capital projects towards replacement facilities for New Britain, Park Central, Atrium, 1301 Arapahoe, FAM, and the Municipal Building. Building size ranges from 55,000 to 110,000 sq ft. Could also include parking structures to replace surface parking currently in the High Hazard Zone. Only includes 200 spots for employee and city vehicle parking.
PW-Transportation	Civic Center Plan Transportation Projects Implementation	\$ 15,000,000	The Civic Center Planning process is underway and it is anticipated that an outcome of the planning process will be various projects including new and improved transportation connections to provide for transportation options to and through the civic center area. At this time, there is not funding programmed for these improvements. As these projects are still being defined, the scope and cost are unknown so a general place holder is estimated at \$15 Million.



**Table 16-3: Unfunded Projects — Placemaking (Cont.)**

Department	Project	Total Cost	Description
DUHMD	University Hill Commercial Area Pennsylvania Event Street Pilot	\$ 500,000	Due to its small size and constrained location, the University Hill commercial district lacks public plazas, parks or similar areas for community gatherings and events. A section of Pennsylvania Avenue is proposed to be redesigned and retrofitted to become a multi-purpose event street that would accommodate festivals, special events and community gatherings. The Pennsylvania Event Street would be a pilot project that could incorporate many shared street concepts but be tailored to facilitate closure and production of events, such as special lighting, infrastructure for tenting and access to electricity, and could be used as a model for other commercial districts. During other times, it would continue to function as a transportation corridor and provide parking but could emphasize biking and pedestrians. The area has been used successfully for numerous special events (Hill 2K, Hill Flea, Snacks and Jazz).
DUHMD	University Hill Pedestrian Scale Corridor Lighting in the Univ Hill High Density Residential Area	\$ 5,700,000	The project proposes adding pedestrian scale lighting to primary pedestrian corridors within the hill's high density residential area to increase safety. Potential corridors include: 12th Street – Pleasant to Aurora; College Avenue, Pennsylvania Avenue and Pleasant Street, - 9th to 12th. A thorough study and extensive community input would be required to establish a final design. Pedestrian scale lighting already exists within the boundaries of the commercial district. Cost estimate is \$1.8 to \$5 million. The costs are dependent on the quality of light fixture and frequency of spacing.



**Table 16–3: Unfunded Projects — Placemaking (Cont.)**

Department	Project	Total Cost	Description
DUHMD	University Hill Commercial/Residential Gateway Features	\$ 500,000	The University Hill commercial district is a small area located between two large neighbors – the main campus of the University of Colorado and the hill residential area. The Hill Gateway project would focus along 12th Street on the three primary pedestrian corridors between the University and the residential neighborhood – College, Pennsylvania and Pleasant. The goal would be for the gateways to alert passersby to the transition between the character of the residential neighborhood and that of the commercial district and the campus. Through thoughtful public art and streetscape design, the project would celebrate the special character of the University Hill neighborhood and communicate the distinct qualities of different components of the hill. The project would be integrated with the Pennsylvania Event Street project.
Housing	Accellearated Housing Capital	\$ 15,000,000	Injection of capital funding to implement several affordable housing sites that are waiting for funding.
PW-Transportation	Traveler information system	\$ 2,000,000	Provide real-time information for system users to help inform travel choices. Provide in-depth information about system use for analysis and measurements. Includes real-time counters and cameras on multi-use paths and on key arterials which feed an on-line, real-time publicly accessible site. The system will use the data to estimate overall system use and travel delays.
VARIOUS	Access Management and Parking Strategies (AMPS) Enhancements	\$ 2,000,000	Provide enhanced facilities for AMPS. The AMPS study started in 2013 and is continues into 2014. The study has identified several capital investment for enhanced transportation, multi-modal incentives, and parking. These include investments into pedestrian and bike amenities, street scaping, city-edge park and ride/bike, bike stations, electric vehicle charging stations, and opportunities for energy generation pilots in parking garages and surface lots.
PW-Transportation	Multi-use pathway connections - second tier	\$ 10,000,000	Significantly increase connectivity in north and south Boulder by building new sections of pathway and new underpasses along the Greenway system. Several projects are included: missing links along the Wonderland and Fourmile greenway systems, new underpasses along Skunk Creek (at Moorhead) and Bear Canyon Creek (at Table Mesa). It would also complete the northern section of a multi-use pathway along 28th Street.



Table 16-3: Unfunded Projects — Placemaking (Cont.)

Department	Project	Total Cost	Description
Housing	Land Bank	\$ 20,000,000	Acquire and hold land to facilitate residential development that furthers the city's housing (and other) goals (e.g. 30th and Pearl). Would supplement dedicated affordable housing funding. O&M could be positive if property is leased. If not, the city has minimal carrying costs.
Library	Library-North Boulder Branch	\$ 4,161,500	Construction, Furniture, Fixtures and Equipment for a 13,000 sq ft library branch, including an opening day collection, in the North Boulder neighborhood. Annual operating and maintenance and staffing costs are also included. At this time a donated piece of land has been identified for this proposed project.
CMO	Boulder History Museum	\$ 4,000,000	Donation to Boulder History Museum for the museum's capital campaign.
PW-Transportation	Transit stop enhancements	\$ 1,580,000	Enhance transit stops by improving superstops and high use stops and adding basic amenities at all stops. Provide funding for regular maintenance. Add bike share and car share connections at key locations to facilitate the final mile of travel.
IT	Public Fiber Optic Network	\$ 50,000,000	Funds to construct a city-wide fiber optic network to deliver service to city businesses and residents. This would significantly add to the city's existing fiber optic which services only city buildings.
P&R	Park and Recreation Land Acquisitions	\$ 8,000,000	New parks and recreation land acquisitions that are required for critical growth areas to accommodate existing and future residential areas and subsequent level of service requirements in the community. Park land acquisition funds are necessary to support the livability and needs of neighborhoods and the overall community. New park land may include; Gunbarrel Area Park (land acquisition and development), and other undefined parks and recreational facility needs.
PW-FAM	New Climate Action Plan Goal	\$ 42,000,000	This project would include various initiatives for city operations under the General Fund to meet the city's proposed new goal of 80% reduction in greenhouse gas emissions by 2050, from 1990 levels.



**Table 16-3: Unfunded Projects — Placemaking (Cont.)**

Department	Project	Total Cost	Description
PW-Transportation	East Arapahoe Planning Implementation - East Campus Connections	\$ 15,000,000	There are two planning efforts underway or planned along Arapahoe - east of 28th Street. The first, East Campus Connections Project, is a joint University of Colorado & City of Boulder project, with the primary project goal to integrate connections from CU &
PW-Transportation	Transit Enhancements (Roll-Up of Transit Projects Listed Above)	\$ 6,580,000	Multi-faceted approach to upgrading Boulder's Transit System, including enhancing transit super-stops, Launching the ORBIT Route, completing improvements at Boulder's
PW-Transportation	Establish new high frequency transit service on 28th and Folsom	\$ 3,000,000	Launch the ORBIT, as identified in the Transportation Master Plan. Buses would run every 10 minutes, as on the SKIP, JUMP and BOUND. Consider including Folsom in the route.
PW-Transportation	Transform northern leg of 204 into high frequency service	\$ 380,000	Increase frequencies to 10 minutes mid-day. Consider minor route adjustments to optimize service. The 204 runs on 19th/20th Street from downtown north, and sees heavy use by CU and Boulder High students, as well as others coming downtown.
PW-Transportation	City-Wide Eco Pass	tbd	Provide a city-wide ecopass to all boulder residents as an incentive to increase use of public transportation and achieve the city's alternative transportation goals.



[This page is intentionally blank.]

## Appendix C, CEAP PROJECTS

2015–2020 Capital Improvement Program

The City of Boulder assesses potential impacts of conceptual project alternatives in order to inform the selection and refinement of a preferred alternative. The evaluation of these alternatives is known as a Community and Environmental Assessment Process or CEAP.

CEAP reviews are prepared when projects are in the site location and facility design phase. The primary purpose of the CEAP is to encourage the consideration of potential social and environmental impacts in planning and decision making and, ultimately, to arrive at actions that achieve the objectives of the project with the fewest impacts. The intent of the CEAP is to make project planning more efficient by considering issues in advance of implementation.

All CEAPs include an analysis of the project and alternatives, including how the project will further implement the BVCP, master plan goals, or subcommunity or area plans. The alternatives are then analyzed through a checklist of impacts to: natural areas or features, riparian areas/floodplains, wetlands, geology & soils, water quality, air quality, resource conservation, cultural/historic resources, visual quality, safety, physiological well-being, urban services, special populations, and the economy.

The Appendix to Title 2 of the Boulder Revised Code instructs that major capital improvement projects should be handled in accordance with the City Plans and Projects Handbook, dated November 2007.

The 2007 Handbook provides that a project should be evaluated through a CEAP if it meets any of the following criteria:

- A project or a potential alternative could have a significant impact on an environmental, social, or cultural resource and the project would benefit from a CEAP;
- The project is anticipated to generate enough neighborhood or community input to require a public hearing or board review;
- There is more than one possible conceptual alternative that will require staff or community input in the selection; or
- The project requires alternatives analysis as part of internal or external permitting and review processes at the local, county (1041), state, or federal level (NEPA).

An internal city CEAP should be performed prior to submitting for a local permit or to the external



agency. Annually, the list of Capital Projects is reviewed by the internal city CEAP review group, and the group discusses projects that may need a CEAP. Projects that require Concept and Site Plan Review do not go through the CEAP and are not reviewed by the CEAP Review Group.

CEAP findings are submitted by departments to their respective advisory board for review as part of CIP project approval. For those departments that do not have an advisory board, the Planning Board is responsible for reviewing CEAP findings as part of project approval. Council has the opportunity to call up projects for their review and approval.

The following capital improvement projects proposed for funding in the 2015–2020 CIP are recommended to complete a Community and Environmental Assessment Process (CEAP).

### **Open Space & Mountain Parks Department**

- Historical Structures and Trails – Stabilization & Restoration \* (Page 160)
- Visitor Infrastructure – System Wide \* (Page 172)

### **Parks & Recreation Department**

- Violet Park (Page 205, In conjunction with Greenways Fourmile Canyon Creek improvements)

### **Transportation Division**

- 28th Street (Baseline to Iris) (CEAP completed 2001) (Page 226)

### **Utilities Division/Greenways**

- Bear Canyon Creek Flood Mitigation (Page 268)
- Barker Dam Hydroelectric & Dam Outlet (Page 299 and 300)
- Bluebell and King’s Gulch Flood Mitigation (Page 269)
- Boulder Creek Flood Mitigation (Page 270)
- Carter Lake Hydroelectric (Page 307)
- Carter Lake Pipeline NCWCD Conveyance (Page 316)
- Fourmile Canyon Creek Upland to Violet (Page 126)
- Gregory Creek Flood Mitigation (Page 271)
- Lakewood Pipeline (Page 315)
- Skunk Creek Flood Mitigation (Page 274)
- South Boulder Creek Flood Mitigation Phase I (Page 275)
- Twomile Canyon Creek Flood Mitigation (Page 280)
- Upper Goose Creek Drainage (Page 281)
- Witemeyer Ponds\* (Page 330)
- Wonderland Creek – Foothills to 30th Street (Page 129, CEAP Completed in 2013)

\*As the scope of work is defined the necessity of a CEAP or other public review will be determined.