



2018 ANNUAL BUDGET VOLUME II

CITY OF BOULDER, COLORADO



2018 Annual Budget Volume II



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HOW TO USE THIS DOCUMENT

The City of Boulder's 2018-2023 Capital Improvement Program (CIP) contains information on how the city plans to invest available resources into key infrastructure and facilities between 2018 and 2023. 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; links to maps illustrating the location of projects throughout the city; and narratives describing the rationale behind project prioritization. The 2018-2023 CIP has five main parts:

- Introduction and CIP Highlights
- Funding Summaries
- Special Highlights
- Department Sections
- Citywide Information Sections

1 | INTRODUCTION

The Introduction section provides an overview of the 2018-2023 CIP including highlights of the CIP, and describes the CIP process.

2 | FUNDING SUMMARIES

The Funding Summaries section contains analysis of how the 2018-2023 CIP allocates dollars among city departments, project types, and funds. Full financial detail can be found in the tables of this section.

3 | SPECIAL HIGHLIGHTS

The Special Highlights sections include information on major areas of concerted effort related to capital investment. These include: implementation of the Community, Culture and Safety tax projects; information on Central Boulder long-term planning; and an update public art and capital projects.

4 | DEPARTMENT SECTIONS

The department sections each contain highlights of the department's mission, funds, capital projects and highlights. Following the narrative, the department sections contain department funding summaries and project sheets for each of the department's CIP projects.

5 | CITYWIDE INFORMATION SECTIONS

- CIP Process, Prioritization and Guiding Principles
- Strategic Planning for Unfunded Needs
- Asset Assessment and Inventory
- Project Planning / Community Environmental Assessment Process (CEAP)
- Growth Related Funding

DATA LIMITATIONS

The 2018-2023 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), over the six year time frame.

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 for each project includes:

- Capital Funding Plan
- Unfunded Amount

For most projects in the CIP, the Capital Funding Plan table shows total allocated dollars to the project prior to 2018 and for each year between 2018 through 2023. However, ongoing programs, because they have typically received funding for many years before 2018, may not have complete information about allocated funding prior to 2017. Ongoing programs generally allocate a set amount of funding per year on a continuing basis. The Total Funding Plan shows either the ongoing funding totals or the years shown, or the total estimated cost of completing a specific project.

The Future Unfunded field is intended to show any amount of the Total Funding Plan that does not have an identified funding source. The Funding to Completion field is intended to show any amount of the Total Funding Plan that is outside of the six-year CIP window (2018-2023).

On-going Funding Plan

Capital Funding Plan								
Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$154,932	\$400,000	\$500,000	\$500,000	\$400,000	\$400,000	\$300,000	\$0
							Funding to Completion:	\$0
							Future Unfunded:	\$0
Total Funding Plan:		\$4,400,000						

Specific Project Funding Plan

Capital Funding Plan								
Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$2,985	\$957,015	\$3,440,000	\$0	\$0	\$0	\$0	\$0
							Funding to Completion:	\$0
							Future Unfunded:	\$0
Total Funding Plan:		\$4,400,000						



1 | INTRODUCTION

CAPITAL PLANNING AND 2018 – 2023 CIP

The City of Boulder’s Capital Improvements Program (CIP) is a comprehensive, 6-year plan for capital investment in maintaining and enhancing public 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.

RELATIONSHIP BETWEEN PLANS AND THE CIP



Boulder invests in facilities and infrastructure and provides a high level of municipal services. The city owns and maintains 385 buildings and structures (including three recreation centers, five library facilities, eight fire stations, and five parking structures), 1,800 acres of parkland, 46,210 acres of Open Space and Mountain Parks (OSMP), 305 centerline miles of streets, 159 centerline miles of bike facilities, 80 underpasses, two water treatment facilities, one wastewater treatment facility, 11 dams and over 800 miles of water and wastewater piping.

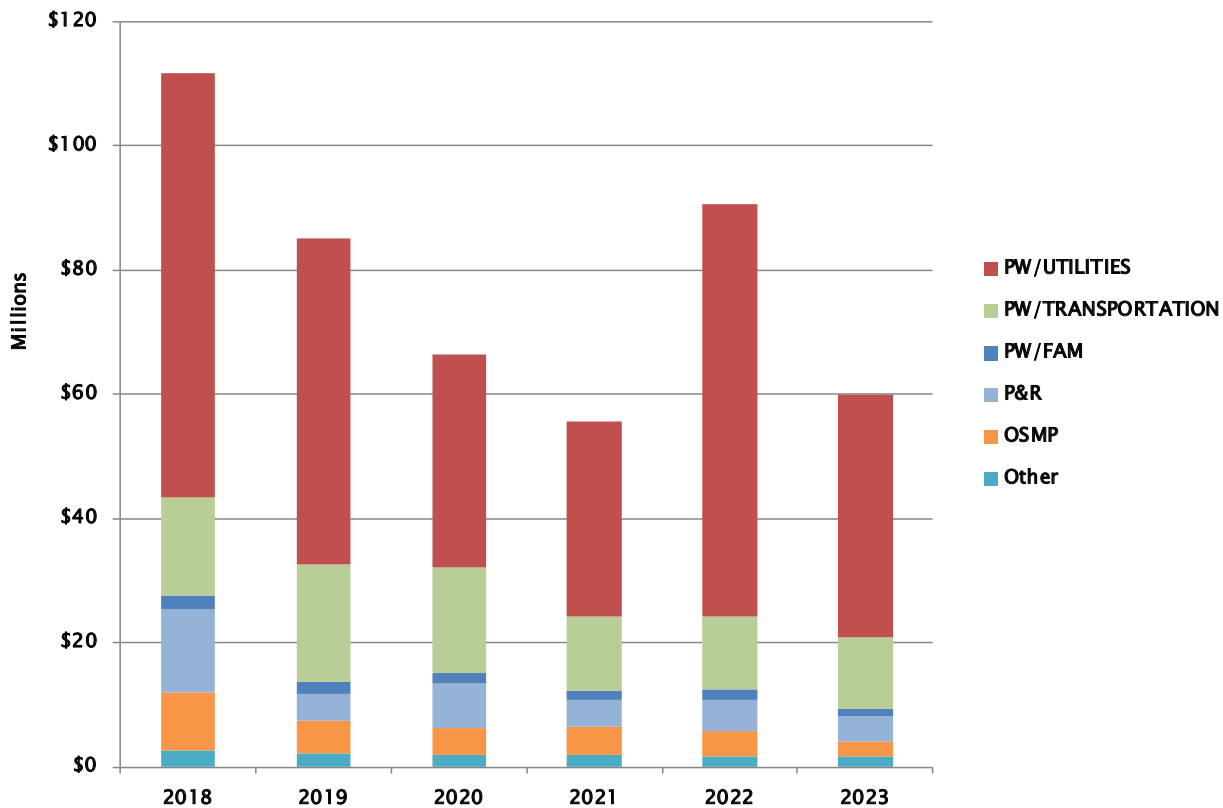
The city funds the construction and maintenance of these assets using a wide range of sources, including tax revenues, bond proceeds, and fees and continues to look for ways to leverage its funding, through federal, state, and local grants and reimbursements, to maximize funding for CIP projects.

INTRODUCTION

The CIP development process prioritizes the city's numerous needs across multiple departments and services with attention to the limits of each funding source, progress on ongoing CIP projects, funding commitments made by prior CIPs and ongoing work to leverage outside funding. Specific information about prioritization including the CIP Guiding Principles is included in the Capital Planning, Prioritization and Guiding Principles section of this document.

2018 – 2023 CAPITAL IMPROVEMENT PROGRAM

The 2018-2023 CIP includes \$111 million for 148 discrete projects or categories of funding for ongoing needs (e.g. local drainage improvements, major trail maintenance).

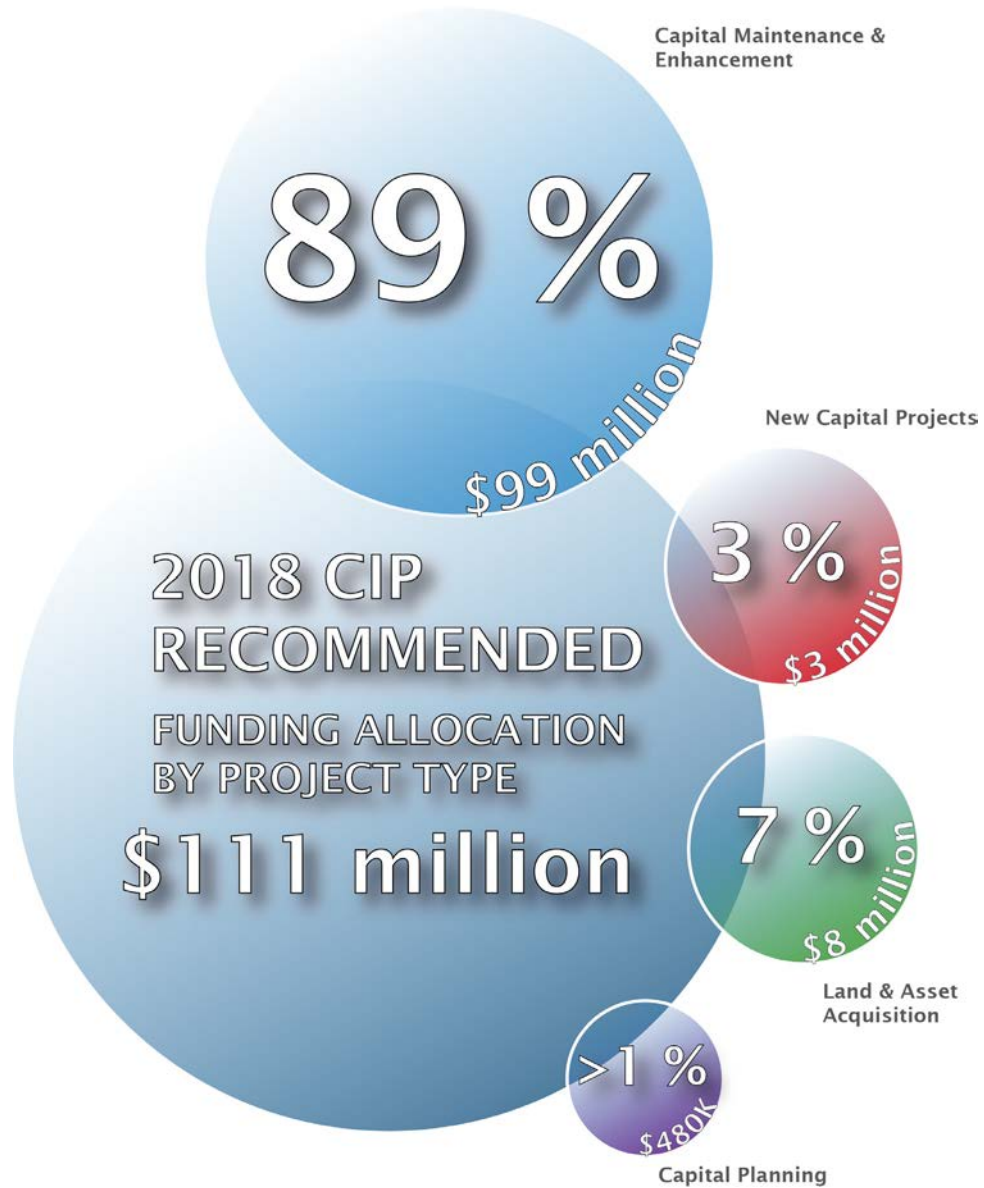


To note, the Community, Culture and Safety Tax 2015-2017 proceeds are not included in these totals because allocations are occurring through budget adjustments. Information on this voter approved capital initiative is included later in this document in a special highlight section.

The city is spending the majority, about 89 percent, of its 2018 capital funds on capital maintenance and enhancement of its existing assets (see figure on p.13). Capital enhancements involve upgrades to existing facilities that may include upgraded 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.

INTRODUCTION

2018 PROJECTS BY PROJECT TYPE



Several departmental master plan updates are underway or will soon begin and will inform future capital planning. These include:

- Fire-Rescue
- Library
- Open Space and Mountain Parks
- Transportation
- Parks and Recreation
- Facilities and Asset Management

INTRODUCTION

CIP HIGHLIGHTS

Using the Sustainability Framework as a basis, the following presents key 2017 CIP accomplishments, a look ahead to 2018 and 2019 priorities, and highlights current and anticipated future capital investments as they relate to subcommunity and area planning.



Meeting many goals, the highlighted projects in the capital improvement program 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.

INTRODUCTION

2017 Key Accomplishments

Baseline Underpass		
   	 	<p>Project Description: The completed project provides a grade separated crossing of Baseline Road and 10-foot multi-use path connections and bike lanes connecting to CU, the Basemar retail center, the Broadway multi-use path, and Skunk Creek multi-use path.</p> <p>Funding: The project budget of \$5.4 Million comes from the following sources:</p> <ul style="list-style-type: none"> • \$554,000 of City of Boulder transportation funds • \$4.046 Million of FHWA funds; and • \$800,000 in CDOT funds <p>Phasing: Began construction in May, 2016 and completed on June 14, 2017</p>
Betasso Water Treatment Facility Improvements		
   	 	<p>Project Description: This project rehabilitates and makes improvements to the Betasso Water Treatment Facility. Betasso is the city's primary Water Treatment Facility and has almost 50 years of continuous operation.</p> <p>Funding: The Water Utility Funds this project totaling over \$25 million</p> <p>Phasing: This project is anticipated to complete in 2018</p>
Wonderland Creek		
   	 	<p>Project Description: The purpose of this project is to provide 100-year channel improvements for the creek. By creating these improvements, the city will be reducing the flood risk to 583 dwelling units, which are currently located within the 100-year floodplain. In addition, we will be building three new underpasses to provide safe passage for pedestrians and cyclists.</p> <p>Funding: The project construction budget of approximately \$23 Million comes from the following funding sources:</p> <ul style="list-style-type: none"> • Federal TIP Grant \$2.8 million • Federal HUD Grant \$2.9 million • UDFCD Funding \$2.26 million • Bond and Flood Funds \$15 million <p>Phasing: Began construction in 2015, and is anticipated to complete in February 2018</p>

INTRODUCTION

2017 Key Accomplishments

Civic Area	
 	<p>Project Description: Community, Culture and Safety tax funding to create new community spaces and connections, improve lighting, and complete other enhancements that will make public spaces, lively, safe and an attractive to both residents and visitors. These improvements are part of the first phase of the larger Civic Area redevelopment project and Master Plan which was adopted in July of 2015.</p> <p>Funding: \$8.7 Million from the Community, Culture and Safety tax</p> <p>Phasing: Implementation of the Civic Area master Plan is expected to take place over the next 10 to 20 years. The first phase is currently moving forward thanks to the passage of the November 2014 Community, Culture and Safety tax. Construction of Phase I park Improvements began in September 2016.</p>
Uni-Hill Event Street	
 	<p>Project Description: This project takes advantage of the Community, Culture and Safety tax funding to create a street designed for vehicles, pedestrians, and bicycles, as well as the ability to easily close the portion of Pennsylvania Avenue between the alley to the west and 13th Street to the east for events.</p> <p>Funding: This project budget of \$930,000 is funded by the Community, Culture & Safety tax</p> <p>Phasing: Began construction in May, 2017 and is anticipated to complete mid-August, 2017</p>
OSMP Flood Recovery	
 	<p>Project Description: The over-riding factor determining the priority of OSMP CIP projects has been the need to complete recovery from damage caused by the historic flood and rainfall in September 2013. Since then, OSMP has completed, and continues to implement various flood related projects, including the recovery of trails and habitat damage.</p> <p>Funding: The Open Space Fund is covering project costs with reimbursement from FEMA, State of CO, and others.</p> <p>Phasing: Consists of multiple projects</p>

INTRODUCTION

Looking Ahead - 2018/2019 Highlights

Mobility/ Accessibility- Projects that maintain and improve mobility systems and provide safe connections and public spaces, enhancing neighborhood livability and providing recreational opportunities that support physical and mental well-being.



30th St and Colorado Bike/Ped Underpass

30th St and Colorado Bike/Ped Underpass

Study began in 2017 to plan and prioritize improvements in these important corridors. Work includes planning for a new underpass at 30th & Colorado safely connecting CU's Main and East campuses, providing direct access to transit stops, and connecting nearby neighborhoods.

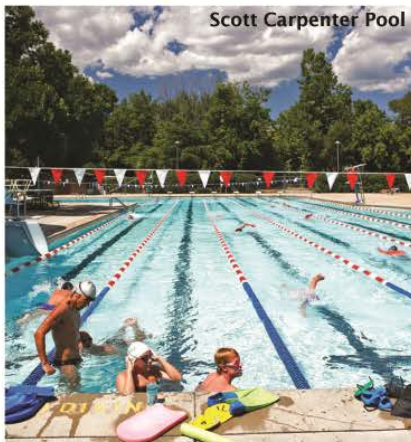
Foothills & Colorado Underpass

This project will replace existing overpass bridge and construct a bicycle/pedestrian underpass, providing a grade separated crossing that is ADA compliant and provides better connections between both sides of Foothills Parkway and CU East Campus.

Railroad Crossing Quiet Zone Improvements

Improvements to railroad crossings throughout Boulder to address train horn noise.

Parks and Recreation- Rehabilitation and enhancements planned at key community recreation facilities provide safe and well-maintained public spaces, support neighborhood and community livability, and provide recreational and social opportunities that support physical and mental well-being.



Scott Carpenter Pool

Scott Carpenter Pool Redevelopment

Replacement of the Scott Carpenter Pool to expand the pool, improve the bathhouse, construct aquatics amenities, and upgrade the park.

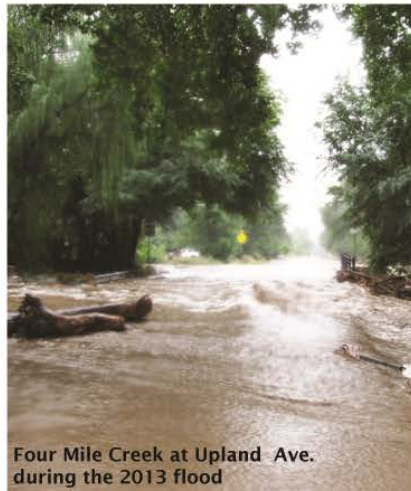
Boulder Reservoir Improvements

Improvements address the backlog of maintenance within the south shore recreation area related to docks, lawns, parking areas and visitor amenities. Improvements include a new visitor services center, beach improvements, play areas, concession area, and key path connections.

Multiple Neighborhood Park Improvements

Annual focus includes enhancements to renovate and repair community parks including playgrounds, parking lots, shelters, courts and ADA improvements. Future projects include Parkside Park, Meadow Glen Park and Martin Park.

Safety, Resilience, Infrastructure- Projects that reduce risk and improve safety, promote stewardship of assets and energy conservation and enhance neighborhood livability.



Four Mile Creek at Upland Ave. during the 2013 flood

Carter Lake Pipeline

The Carter Lake Water Pipeline that will provide reliable and safe water from Carter Lake to the 63rd Street treatment facility.

Fourmile Creek - Upstream of Upland Ave.

The project provides flood mitigation in conjunction with multi-use path connections from 19th Street to Violet Crossing with safer access to Crestview Elementary school, recreational opportunities, and replacement of structurally deficient bridges on Upland and Violet Aves.

South Boulder Creek Phase I





Flood mitigation in the West Valley from South Boulder Creek. Initial phase includes construction of a regional flood detention facility upstream of US36.

Water, Wastewater, and Storm Systems Rehabilitation and Replacement

Rehabilitation and improvements to the city's utilities systems

INTRODUCTION

Looking Ahead - Subcommunity and Area Planning

Civic Area	
	 <p>The long-term vision of the master plan is to transform the Civic Area into an even more unique place that reflects the community's shared values and its diversity, providing space and programs for people to gather, recreate, eat, learn, deliberate and innovate. The plan establishes the goals, guiding principles and core themes for Civic Area implementation. First phase to be completed in 2017, funded from CCS; planning for next steps to include defining the appropriate management, operation, and funding structure for the Civic Area, and developing concept-level program and spatial planning analysis for the East-Bookend.</p>
Boulder Junction	
	 <p>Over the past decade, over \$10M in capital investment has shaped the Boulder Junction area following adoption of the Transit Village Area Plan in 2008. Investment includes constructing Junction Place and Bridge, pedestrian and multi-use path enhancements and new traffic signals. Construction of a pocket park is planned for 2018.</p>
Alpine-Balsam	
	 <p>Adopted by City Council in June 2017, the Alpine-Balsam Vision Plan will guide the transformation of the 8.8 acres of property that formerly housed the Boulder Community Health. The area plan will focus on the city-owned property and adjacent areas of influence. The plan will address land uses, public spaces, community facilities, parks and trail connections, drainage, streetscape, transportation, and building design guidelines, and will inform future capital investment. Initial investment includes redevelopment of the Brenton Building to achieve a high level of energy efficiency.</p>
University Hill	
	 <p>In 2014, Boulder City Council made it a priority to improve quality of life on University Hill for residents, visitors and businesses. The University Hill Reinvestment Strategy provides a framework for pursuing improvements, with the city acting as a catalyst for sustained public/private partnerships and private investment over the long term. Initial investment includes the construction of the new Event Street, landscaped public gathering space on the Hill Commercial Area that is open to vehicles, pedestrians, and bicycles, all of which will be complete in 2017.</p>

INTRODUCTION

SPECIAL HIGHLIGHT SECTIONS

The special highlight sections of the Capital Budget provide detailed information on initiatives or other areas of focus in addition to information provided in the funding summaries and/or department pages. The highlight sections included herein are:

Community, Culture and Safety Tax – Boulder voters approved the Community Culture and Safety tax in 2014 to fund key capital and community needs. This highlight section provides an update on spending and planned projects funded by the temporary tax. Projected revenue is anticipated to yield \$27.6 million for thirteen specific projects to improve community spaces, bolster cultural projects and organizations, and enhance safety. Projects to implement the Civic Area Plan will be funded by this tax.

On November 7, Boulder voters elected to renew the Community, Culture, and Safety Sales and Use tax for four years (2018-2021) to fund another diverse mix of projects (See CCS Highlight Section). The package includes key public safety projects and important enhancements to renovation and infrastructure projects currently underway. More information on the renewal can be found on the [project website](#).

Central Boulder Long-Term Planning – Several planning processes for the Central Boulder Corridor are underway. This highlight section provides information on the long-term planning process for the Central Boulder corridor, including University Hill, Civic Area and Alpine Balsam sites.

Public Art - The city is developing a new policy to commission public art in a manner consistent with the Community Cultural Plan, integrating public art with capital improvements in public spaces. This highlight section describes work that is proceeding to identify a sustainable source of funding and outline new public art projects.

CITYWIDE INFORMATION SECTIONS

CIP Process, Prioritization and Guiding Principles

Boulder's capital planning is built on the community's vision and identifies and prioritizes the needs of the community. This is done by applying Boulder's Sustainability Framework and the CIP Guiding Principles to ensure that the CIP aligns with and advances the wide range of goals and priorities of the City Council and community. The CIP review and prioritization process is described in detail in this section.

Strategic Planning for Unfunded Needs

Master Plans and the Capital Improvement Program are key tools for identifying and targeting public capital investment within changing budget constraints. The goal is to maintain and, in some cases, enhance service levels and standards over time. In the process of planning to achieve the community's vision, staff continues to identify significant unfunded and emerging capital needs across the city related to maintenance and replacement, service delivery, community vision and new opportunities. This section outlines the challenges experienced in long-term capital planning, new opportunities and work underway to address capital needs.

Asset Assessment and Inventory

In order to honor the commitment to "taking care of what we have" the city has committed to maintaining a coordinated, organization-wide condition assessment that will identify ongoing capital needs necessary to maintain infrastructure, assets, and facilities for a sustainable community, thus informing strategic investments that support community priorities. The inventory is described in detail in this section.

INTRODUCTION

Community and Environmental Assessment Process (CEAP)

The projects that are proposed to be evaluated under Community and Environmental Assessment Process (CEAP) review are listed in this section, 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.

Growth-Related Funding

The city completed updated study of development excise tax and impact fees last year and approved a new fee structure to produce revenues that can be used toward projects for which there is deemed to be a growth impact component. This section provides an overview of how the city funds system improvements to offset the impact of new development on city infrastructure and projects in the 2018-2023 CIP that are funded by these sources.

CIP PROJECT MAPPING

Project mapping is provided through [this link](#) to an interactive site.



ANNUAL 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 (BVCP) 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.

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.

INTRODUCTION

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.

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2 | FUNDING SUMMARIES

OVERVIEW

FUNDING BY DEPARTMENT

Community Vitality
Information Technology
Open Space and Mountain Parks
Parks and Recreation
Public Works - Facilities and Asset Management
Public Works - Stormwater and Flood Management
Public Works - Transportation
Public Works - Wastewater Utility
Public Works - Water Utility

FUNDING BY PROJECT TYPE

Capital Enhancement
Capital Maintenance
Capital Planning Studies
Land Acquisition
New Facility/Infrastructure

FUNDING BY FUND

.25 Cent Sales Tax Fund
Airport Fund
Boulder Junction Capital Improvement Fund
Capital Development Fund
Computer Replacement Fund
Downtown Commercial District Fund
Facility Renovation & Replace Fund
Lottery Fund
Open Space Fund
Permanent Parks & Recreation Fund
Stormwater & Flood Management Utility Fund
Transportation Fund
Transportation Development Fund
Wastewater Utility Fund
Water Utility Fund

OVERVIEW

The Funding Summaries section provides full detail of the city's CIP budget needs from 2018 through 2023 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 2018-2023 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.

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.

FUNDING BY DEPARTMENT

The following city departments are participating in the 2018-2023 CIP:

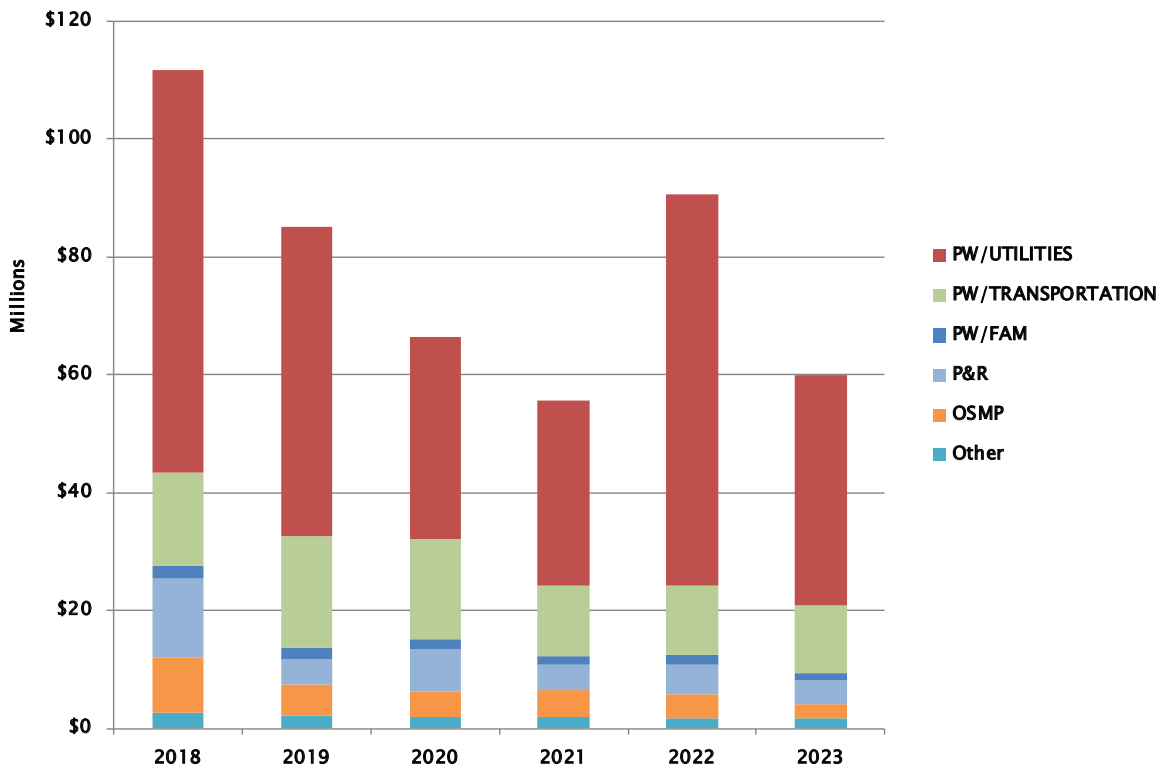
- Community Vitality
- Information Technology (IT)
- Open Space and Mountain Parks (OSMP)
- Parks and Recreation
- Public Works (PW) - Facilities and Asset Management (FAM)
- PW—Stormwater and Flood Management Utility
- PW-Transportation and Municipal Airport
- PW-Wastewater Utility
- PW-Water Utility
- PW-Greenways

The Public Works divisions of Utilities and Transportation have the greatest allocations of resources in the 2018-2023 CIP. Major renovations to stormwater, water and wastewater facilities are primarily responsible for the large spikes in allocations during 2018 and 2023.

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

The chart below displays the share of total 2018-2023 CIP spending on each department.

2018-2023 FUNDING BY DEPARTMENT



* Other includes Community Vitality and Information Technology

FUNDING BY DEPARTMENT

2018-2023 FUNDING SUMMARY BY DEPARTMENT

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
COMMUNITY VITALITY	\$ 3,650,000	\$ 1,775,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000
INFORMATION TECHNOLOGY	8,558,000	900,200	1,751,200	1,554,200	1,617,900	1,404,900	1,329,600
OPEN SPACE AND MOUNTAIN PARKS	29,865,300	9,435,300	5,270,000	4,415,000	4,465,000	3,940,000	2,340,000
PARKS AND RECREATION	38,004,600	13,304,600	4,250,000	7,000,000	4,250,000	5,000,000	4,200,000
PW/FACILITIES AND ASSET MNGMT	10,286,000	2,102,000	2,111,000	1,705,000	1,624,000	1,662,000	1,082,000
PW/STORMWATER AND FLOOD MGNT	76,413,112	7,207,222	33,625,308	4,533,357	8,507,738	4,360,505	18,178,982
PW/TRANSPORTATION	86,802,789	15,760,585	18,866,360	17,039,464	11,847,380	11,744,500	11,544,500
PW/WASTEWATER UTILITY	93,795,605	18,284,523	6,225,831	8,076,910	7,882,047	45,859,818	7,466,476
PW/WATER UTILITY	122,074,027	42,884,809	12,730,701	21,717,967	15,026,085	16,351,649	13,362,816
TOTAL	\$469,449,433	\$111,654,239	\$85,205,400	\$66,416,898	\$55,595,150	\$90,698,372	\$59,879,374

COMMUNITY VITALITY

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL MAINTENANCE							
Downtown Parking Garage Major Maint	\$ 1,500,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Downtown Pearl St Mall Amenity Repl	750,000	125,000	125,000	125,000	125,000	125,000	125,000
Garage Stair Replacement 1500/1100	1,400,000	1,400,000	-	-	-	-	-
TOTAL: CAPITAL MAINTENANCE	\$ 3,650,000	\$ 1,775,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000
TOTAL	\$ 3,650,000	\$ 1,775,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000

INFORMATION TECHNOLOGY

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL MAINTENANCE							
Data Backup and Disaster Recovery	\$ 231,700	\$ 74,300	\$ -	\$ -	\$ -	\$ 53,300	\$ 104,100
Database Hardware Replacement	150,600	-	-	19,200	65,600	65,800	-
End User Device Replacement	4,474,400	564,900	694,000	704,000	720,100	910,400	881,000
Network Hardware Replacement	2,979,900	228,100	985,800	795,800	289,600	357,600	323,000
Security Administration	124,100	3,500	37,600	35,200	30,000	17,800	-
Server Hardware Replacement	597,300	29,400	33,800	-	512,600	-	21,500
TOTAL: CAPITAL MAINTENANCE	\$ 8,558,000	\$ 900,200	\$ 1,751,200	\$ 1,554,200	\$ 1,617,900	\$ 1,404,900	\$ 1,329,600
TOTAL: INFORMATION TECHNOLOGY	\$ 8,558,000	\$ 900,200	\$ 1,751,200	\$ 1,554,200	\$ 1,617,900	\$ 1,404,900	\$ 1,329,600

FUNDING BY DEPARTMENT

OPEN SPACE AND MOUNTAIN PARKS

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT							
Emergent Lottery Projects	\$ 428,000	\$ 428,000	\$ -	\$ -	\$ -	\$ -	\$ -
NTSA Implementation	1,250,000	350,000	300,000	150,000	150,000	150,000	150,000
Regional Trails	480,000	80,000	80,000	80,000	80,000	80,000	80,000
WTSA Implementation	550,000	-	150,000	150,000	150,000	100,000	-
TOTAL: CAPITAL ENHANCEMENT	\$ 2,708,000	\$ 858,000	\$ 530,000	\$ 380,000	\$ 380,000	\$ 330,000	\$ 230,000
CAPITAL MAINTENANCE							
Agriculture and Water Facilities	\$ 770,000	\$ 110,000	\$ 110,000	\$ 125,000	\$ 125,000	\$ 150,000	\$ 150,000
Cultural Resource/Facility Restorat	527,300	27,300	100,000	100,000	100,000	100,000	100,000
Ecological System Maintenance/Restr	800,000	300,000	100,000	100,000	100,000	100,000	100,000
Facilities Maintenance	1,800,000	400,000	250,000	250,000	300,000	300,000	300,000
Farm Site Improvements	360,000	60,000	60,000	60,000	60,000	60,000	60,000
Major Infrastructure Maintenance	660,000	160,000	100,000	100,000	100,000	100,000	100,000
TOTAL: CAPITAL MAINTENANCE	\$ 4,917,300	\$ 1,057,300	\$ 720,000	\$ 735,000	\$ 785,000	\$ 810,000	\$ 810,000
CAPITAL PLANNING STUDIES							
OSMP Master Plan Update	\$ 200,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -
TOTAL: CAPITAL PLANNING STUDIES	\$ 200,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -
LAND ACQUISITION							
Mineral Rights Acquisition	\$ 600,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
New Property Stabilization	720,000	120,000	120,000	120,000	120,000	120,000	120,000
OSMP Campus Relocation	6,500,000	2,500,000	1,000,000	1,000,000	1,000,000	1,000,000	-
OSMP Real Estate Acquisition	13,500,000	4,500,000	2,500,000	2,000,000	2,000,000	1,500,000	1,000,000
Water Rights Acquisition	720,000	200,000	200,000	80,000	80,000	80,000	80,000
TOTAL: LAND ACQUISITION	\$ 22,040,000	\$ 7,420,000	\$ 3,920,000	\$ 3,300,000	\$ 3,300,000	\$ 2,800,000	\$ 1,300,000
TOTAL: OPEN SPACE AND MOUNTAIN PARKS	\$ 29,865,300	\$ 9,435,300	\$ 5,270,000	\$ 4,415,000	\$ 4,465,000	\$ 3,940,000	\$ 2,340,000

PARKS AND RECREATION

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT							
Aquatic Facility Enhancements	\$ 2,841,000	\$ 81,000	\$ 2,250,000	\$ -	\$ 510,000	\$ -	\$ -
Athletic Field Improvements	2,000,000	100,000	-	250,000	650,000	1,000,000	-
Neighborhood/Community Park Improve.	8,490,000	500,000	1,000,000	1,000,000	1,990,000	2,000,000	2,000,000
Scott Carpenter Pool Redevelopment	8,523,600	8,523,600	-	-	-	-	-
TOTAL: CAPITAL ENHANCEMENT	\$ 21,854,600	\$ 9,204,600	\$ 3,250,000	\$ 1,250,000	\$ 3,150,000	\$ 3,000,000	\$ 2,000,000
CAPITAL MAINTENANCE							
Boulder Reservoir South Shore	\$ 4,400,000	\$ 3,400,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
Flatiron Golf Course Repairs	600,000	-	-	-	600,000	-	-
Recreation Facility Repairs	2,500,000	-	500,000	-	-	1,500,000	500,000
Urban Forest Management	2,850,000	350,000	500,000	500,000	500,000	500,000	500,000
TOTAL: CAPITAL MAINTENANCE	\$ 10,350,000	\$ 3,750,000	\$ 1,000,000	\$ 500,000	\$ 1,100,000	\$ 2,000,000	\$ 2,000,000
CAPITAL PLANNING STUDIES							
BPR Master Plan Update	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -
TOTAL: CAPITAL PLANNING STUDIES	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -
NEW FACILITY/INFRASTRUCTUR							
Boulder Junction Pocket Park	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -
New Neighborhood Park Development	200,000	-	-	-	-	-	200,000
Valmont City Park Development	5,000,000	-	-	5,000,000	-	-	-
TOTAL: NEW FACILITY/INFRASTRUCTUR	\$ 5,550,000	\$ 350,000	\$ -	\$ 5,000,000	\$ -	\$ -	\$ 200,000
TOTAL: PARKS AND RECREATION	\$ 38,004,600	\$ 13,304,600	\$ 4,250,000	\$ 7,000,000	\$ 4,250,000	\$ 5,000,000	\$ 4,200,000

FUNDING BY DEPARTMENT

PUBLIC WORKS - FACILITIES AND ASSET MANAGEMENT

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT							
Municipal Building Renovations - SW	\$ 560,000	\$ 560,000	\$ -	\$ -	\$ -	\$ -	\$ -
Tantra Shop Renovation	300,000	-	-	-	-	300,000	-
West Senior Center Maj Maint & Reha	700,000	-	-	700,000	-	-	-
TOTAL: CAPITAL ENHANCEMENT	\$ 1,560,000	\$ 560,000	\$ -	\$ 700,000	\$ -	\$ 300,000	\$ -
CAPITAL MAINTENANCE							
Aquatics Facility Repairs	\$ 976,000	\$ -	\$ 723,000	\$ -	\$ 253,000	\$ -	\$ -
Essential Facility Maintenance Proj	2,600,000	700,000	-	200,000	400,000	500,000	800,000
Fire Stations Major Maintenance	871,000	132,000	138,000	145,000	152,000	152,000	152,000
Fleet - System Repairs/Replacements	460,000	80,000	220,000	80,000	-	80,000	-
Martin Park Shelter Major Maint	169,000	-	-	-	169,000	-	-
Misc Facility Maintenance Projects	2,150,000	400,000	400,000	450,000	400,000	500,000	-
N Boulder Park Shelter Repair	120,000	-	-	-	120,000	-	-
Recreation Facility Repairs	500,000	-	500,000	-	-	-	-
TOTAL: CAPITAL MAINTENANCE	\$ 7,846,000	\$ 1,312,000	\$ 1,981,000	\$ 875,000	\$ 1,494,000	\$ 1,232,000	\$ 952,000
CAPITAL PLANNING STUDIES							
City Facilities Analysis/Consolidat	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -
Facility Assessments	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Misc Space Needs and Analysis	480,000	80,000	80,000	80,000	80,000	80,000	80,000
TOTAL: CAPITAL PLANNING STUDIES	\$ 880,000	\$ 230,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000
TOTAL: PW/FACILITIES & ASSET MNGMT	\$10,286,000	\$ 2,102,000	\$ 2,111,000	\$ 1,705,000	\$ 1,624,000	\$ 1,662,000	\$ 1,082,000

PUBLIC WORKS - STORMWATER AND FLOOD MANAGEMENT

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT							
2017 MP -Wonderland Creek 1 Stm Sew	\$ 386,896	\$ -	\$ -	\$ -	\$ 386,896	\$ -	\$ -
Boulder Creek Flood Mitigation	1,250,000	1,250,000	-	-	-	-	-
Four Mile Upstream of Upland	3,000,000	3,000,000	-	-	-	-	-
Goose Creek 19th to Folsom	5,550,000	-	1,500,000	1,250,000	500,000	800,000	1,500,000
Greenways Project - Flood & Lottery **	1,491,402	248,567	248,567	248,567	248,567	248,567	248,567
Gregory Creek Flood Mitigation	500,000	500,000	-	-	-	-	-
Local Drainage Improvements	5,545,846	789,655	821,241	854,090	986,949	1,026,427	1,067,484
Stormwater Quality Improvements	1,164,172	175,500	182,500	190,000	197,390	205,285	213,497
SW MGMT - Bear Canyon Creek	324,846	-	-	-	324,846	-	-
SW MGMT - Middle Boulder Creek	3,862,873	-	-	-	3,862,873	-	-
Upper Goose Creek Storm Sewer Impr	12,986,000	-	-	-	-	-	12,986,000
TOTAL: CAPITAL ENHANCEMENT	\$ 36,062,035	\$ 5,963,722	\$ 2,752,308	\$ 2,542,657	\$ 6,507,521	\$ 2,280,279	\$ 16,015,548
CAPITAL MAINTENANCE							
Storm Sewer Rehabilitation	\$ 3,283,107	\$ 292,500	\$ 304,000	\$ 632,700	\$ 657,966	\$ 684,285	\$ 711,656
Transportation Coordination	3,402,907	351,000	365,000	633,000	657,966	684,285	711,656
Utility Billing Computer System	65,000	-	-	65,000	-	-	-
TOTAL: CAPITAL MAINTENANCE	\$ 6,751,014	\$ 643,500	\$ 669,000	\$ 1,330,700	\$ 1,315,932	\$ 1,368,570	\$ 1,423,312
LAND ACQUISITION							
Preflood Property Acquisition	\$ 4,029,063	\$ 600,000	\$ 633,000	\$ 660,000	\$ 684,285	\$ 711,656	\$ 740,122
TOTAL: LAND ACQUISITION	\$ 4,029,063	\$ 600,000	\$ 633,000	\$ 660,000	\$ 684,285	\$ 711,656	\$ 740,122
NEW FACILITY/INFRASTRUCTURE							
South Boulder Creek - Bond Proceeds	\$ 29,571,000	\$ -	\$ 29,571,000	\$ -	\$ -	\$ -	\$ -
TOTAL: NEW FACILITY/INFRASTRUCTURE	\$ 29,571,000	\$ -	\$ 29,571,000	\$ -	\$ -	\$ -	\$ -
TOTAL: PW/STORMWATER AND FLOOD MGNT	\$ 76,413,112	\$ 7,207,222	\$ 33,625,308	\$ 4,533,357	\$ 8,507,738	\$ 4,360,505	\$ 18,178,982

FUNDING BY DEPARTMENT

PUBLIC WORKS - TRANSPORTATION

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT							
19th St (Norwood to Sumac)	\$ 748,200	\$ 421,000	\$ 327,200	\$ -	\$ -	\$ -	\$ -
Bldr County/City Joint TIP Projects	151,000	151,000	-	-	-	-	-
Broadway Recon Violet to 36	5,575,000	-	5,575,000	-	-	-	-
Foothills & Colorado Underpass	3,440,000	3,440,000	-	-	-	-	-
Greenways Project - Transportation	585,000	97,500	97,500	97,500	97,500	97,500	97,500
Intersection Safety Projects	875,880	95,640	396,840	80,520	302,880	-	-
Misc Development Coordination	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Neighborhood Speed Mgmt Program	1,800,000	300,000	300,000	300,000	300,000	300,000	300,000
Pavement Management Program	24,937,180	4,317,180	3,000,000	4,405,000	4,405,000	4,405,000	4,405,000
Railroad Quiet Zone Implementation	660,000	660,000	-	-	-	-	-
TOTAL: CAPITAL ENHANCEMENT	\$ 39,072,260	\$ 9,532,320	\$ 9,746,540	\$ 4,933,020	\$ 5,155,380	\$ 4,852,500	\$ 4,852,500
CAPITAL MAINTENANCE							
Deficient Street Light Pole Replace	\$ 605,000	\$ -	\$ 121,000	\$ 121,000	\$ 121,000	\$ 121,000	\$ 121,000
Major Capital Reconstruction	5,301,000	850,500	850,500	900,000	900,000	900,000	900,000
Major Street Reconstruction	2,503,200	411,600	411,600	420,000	420,000	420,000	420,000
Multiuse Path Capital Maintenance	2,496,530	406,265	406,265	421,000	421,000	421,000	421,000
Ped Facilities Repair, Replace, ADA	3,729,970	606,985	606,985	629,000	629,000	629,000	629,000
Rehab Runway & Eastern Taxiway	5,793,889	379,445	-	5,414,444	-	-	-
Sidewalk Maintenance	1,490,940	243,470	243,470	251,000	251,000	251,000	251,000
Signal Maintenance & Upgrade	400,000	200,000	-	-	-	200,000	-
TOTAL: CAPITAL MAINTENANCE	\$ 22,320,529	\$ 3,098,265	\$ 2,639,820	\$ 8,156,444	\$ 2,742,000	\$ 2,942,000	\$ 2,742,000
CAPITAL PLANNING STUDIES							
TMP Update	\$ 350,000	\$ 150,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -
TOTAL: CAPITAL PLANNING STUDIES	\$ 350,000	\$ 150,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -
NEW FACILITY/INFRASTRUCTURE							
30th St and Colorado Bike/Ped Under	\$ 5,900,000	\$ 1,300,000	\$ 4,600,000	\$ -	\$ -	\$ -	\$ -
Multiuse Path - Enhancements	1,260,000	180,000	180,000	225,000	225,000	225,000	225,000
Ped Facs Enh Missing Links Crossing	700,000	100,000	100,000	125,000	125,000	125,000	125,000
TIP Local Match/TMP Implementation	17,200,000	1,400,000	1,400,000	3,600,000	3,600,000	3,600,000	3,600,000
TOTAL: NEW FACILITY/INFRASTRUCTURE	\$ 25,060,000	\$ 2,980,000	\$ 6,280,000	\$ 3,950,000	\$ 3,950,000	\$ 3,950,000	\$ 3,950,000
PW/TRANSPORTATION	\$ 86,802,789	\$ 15,760,585	\$ 18,866,360	\$ 17,039,464	\$ 11,847,380	\$ 11,744,500	\$ 11,544,500

FUNDING BY DEPARTMENT

PUBLIC WORKS -WASTEWATER UTILITY

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT							
Foothills & Baseline Trunk Swr Repl	\$ 3,497,000	\$ 3,497,000	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Treatment Facility Pumps	300,000	-	150,000	-	-	150,000	-
WWTF Activated Sludge	189,798	-	189,798	-	-	-	-
WWTF Electrical	210,000	210,000	-	-	-	-	-
WWTF Instrumentation/Control	1,889,540	126,532	1,265,319	189,798	-	-	307,891
WWTF Permit Improvements	21,529,186	-	-	919,232	1,838,463	18,771,491	-
TOTAL: CAPITAL ENHANCEMENT	\$ 27,615,524	\$ 3,833,532	\$ 1,605,117	\$ 1,109,030	\$ 1,838,463	\$ 18,921,491	\$ 307,891
CAPITAL MAINTENANCE							
Arapahoe Trunk Sewer Replacement	\$ 12,605,000	\$ -	\$ -	\$ -	\$ -	\$ 12,605,000	\$ -
Collection System Monitoring	900,000	150,000	150,000	150,000	150,000	150,000	150,000
Condition Assessment Program	4,582,460	648,960	674,918	701,915	729,992	759,191	1,067,484
Interceptor Sewer Rehabilitation	10,059,920	10,059,920	-	-	-	-	-
Sanitary Sewer Manhole Rehab	2,784,274	233,972	243,331	253,064	657,966	684,285	711,656
Sanitary Sewer Rehabilitation	19,912,089	3,108,139	3,102,465	3,226,563	3,355,626	3,489,851	3,629,445
Utility Billing Computer System	65,000	-	-	65,000	-	-	-
WWTF Cogeneration	184,481	-	-	184,481	-	-	-
WWTF Digester Cleaning	136,857	-	-	136,857	-	-	-
WWTF Digester Complex	2,200,000	-	200,000	2,000,000	-	-	-
WWTF Primary Clarifiers	11,250,000	-	-	-	900,000	9,000,000	1,350,000
WWTF Rehabilitation	1,500,000	250,000	250,000	250,000	250,000	250,000	250,000
TOTAL: CAPITAL MAINTENANCE	\$ 66,180,081	\$ 14,450,991	\$ 4,620,714	\$ 6,967,880	\$ 6,043,584	\$ 26,938,327	\$ 7,158,585
TOTAL: PW/WASTEWATER UTILITY	\$ 93,795,605	\$ 18,284,523	\$ 6,225,831	\$ 8,076,910	\$ 7,882,047	\$ 45,859,818	\$ 7,466,476

FUNDING BY DEPARTMENT

PUBLIC WORKS -WATER UTILITY

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT							
Automated Meter Reading	\$ 740,122	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 740,122
Barker Dam Outlet	9,441,060	-	835,551	8,605,509	-	-	-
Devil's Thumb Storage Tank	1,486,874	-	-	-	-	1,486,874	-
Green Lake 2 Dam	5,429,499	-	-	75,000	486,773	4,867,726	-
Lakewood Dam	124,707	124,707	-	-	-	-	-
Lakewood Hydroelectric/PRV	300,000	-	300,000	-	-	-	-
NCWCD Conveyance - Carter Lake Pipe	32,050,000	32,050,000	-	-	-	-	-
Orodell Hydro/PRV Facility	250,000	100,000	100,000	50,000	-	-	-
Pearl Street Hydro/PRV Facility	267,664	24,333	243,331	-	-	-	-
Source Water Monitoring/Protection	200,000	100,000	100,000	-	-	-	-
Water System Security/Quality Imprv	240,000	150,000	90,000	-	-	-	-
Wittermyer Ponds	5,519,534	-	100,000	492,685	4,926,849	-	-
TOTAL: CAPITAL ENHANCEMENT	\$ 56,049,460	\$ 32,549,040	\$ 1,768,882	\$ 9,223,194	\$ 5,413,622	\$ 6,354,600	\$ 740,122
CAPITAL MAINTENANCE							
Albion Dam	\$ 3,757,997	\$ 341,636	\$ 3,416,361	\$ -	\$ -	\$ -	\$ -
Barker Gravity Pipeline Repair	16,109,601	2,452,571	2,540,674	2,632,301	2,727,593	2,826,697	2,929,765
Betasso Hydroelectric / PRF	750,000	550,000	200,000	-	-	-	-
Boulder Canyon Hydro	415,000	90,000	75,000	-	-	-	250,000
Boulder Reservoir	118,434	-	-	118,434	-	-	-
Chatauqua Storage Tank	848,546	-	-	-	-	-	848,546
Distribution Waterline Replacement	24,054,895	3,626,562	3,771,624	3,922,489	4,079,389	4,242,564	4,412,267
Farmer's Ditch	108,160	-	108,160	-	-	-	-
Goose Lake Dam	75,000	75,000	-	-	-	-	-
Hydro Facilities Rehab Program	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Island Lake Dam	50,000	50,000	-	-	-	-	-
Kohler Hydro/PRV Facility	100,000	-	100,000	-	-	-	-
Kossler Dam	850,000	-	-	-	-	100,000	750,000
Maxwell Hydro/PRV Facility	100,000	-	-	-	100,000	-	-
Reservoir Water Treatment Facility	800,000	200,000	-	600,000	-	-	-
Silver Lake Dam	100,000	100,000	-	-	-	-	-
Silver Lake Hydroelectric/PRV	450,000	-	200,000	-	-	-	250,000
Skyscraper Dam	171,071	-	-	-	171,071	-	-
Source Pumping and Hydro Rehab	1,721,570	150,000	150,000	343,472	351,210	359,259	367,629
Sunshine Hydroelectric/PRV Facility	150,000	-	-	-	-	150,000	-
Utility Billing Computer System	125,000	-	-	125,000	-	-	-
Water Treatment Equipment Repl	456,080	100,000	100,000	100,000	50,000	52,000	54,080
Watershed Improvements	100,000	-	-	100,000	-	-	-
Zone 1 Transmission Pipes	2,660,839	-	-	626,601	651,665	677,732	704,841
Zone 2 Transmission Pipes	3,860,104	-	-	909,016	945,377	983,192	1,022,519
Zone 3 Transmission Pipes	4,485,052	2,500,000	-	467,460	486,158	505,605	525,829
TOTAL: CAPITAL MAINTENANCE	\$ 62,717,349	\$ 10,285,769	\$ 10,711,819	\$ 9,994,773	\$ 9,612,463	\$ 9,947,049	\$ 12,165,476
NEW FACILITY/INFRASTRUCTURE							
Barker Dam Hydroelectric	\$ 507,218	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 457,218
Carter Lake Hydroelectric	2,800,000	50,000	250,000	2,500,000	-	-	-
TOTAL: NEW FACILITY/INFRASTRUCTURE	\$ 3,307,218	\$ 50,000	\$ 250,000	\$ 2,500,000	\$ -	\$ 50,000	\$ 457,218
TOTAL: PW/WATER UTILITY	\$ 122,074,027	\$ 42,884,809	\$ 12,730,701	\$ 21,717,967	\$ 15,026,085	\$ 16,351,649	\$ 13,362,816

FUNDING BY PROJECT TYPE

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 results 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; and
- 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:

- Project results 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; and
- Projects are typically over \$50,000 in total project cost. Information Technology projects are typically over \$25,000 in total project cost.

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; and
- Projects are typically for studies that are over \$50,000 in total cost.

Land & Asset Acquisition:

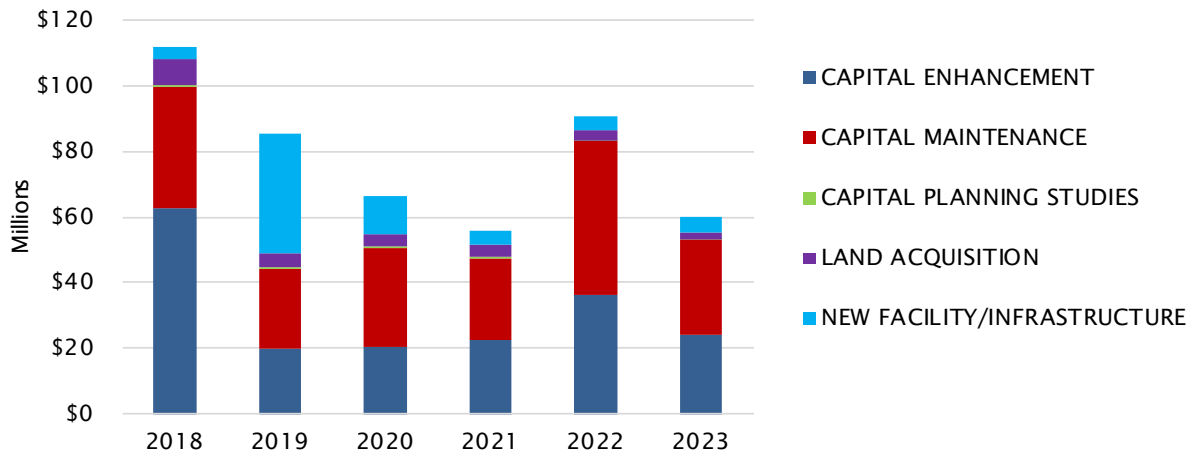
- Project or program results in the acquisition of real property, such as land, mineral or water rights, or permanent easements;
- Projects may have a discrete start and end dates, or may be programmatic;
- Projects or programs may be location specific or city-wide; and
- Projects or programs typically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

FUNDING BY PROJECT TYPE

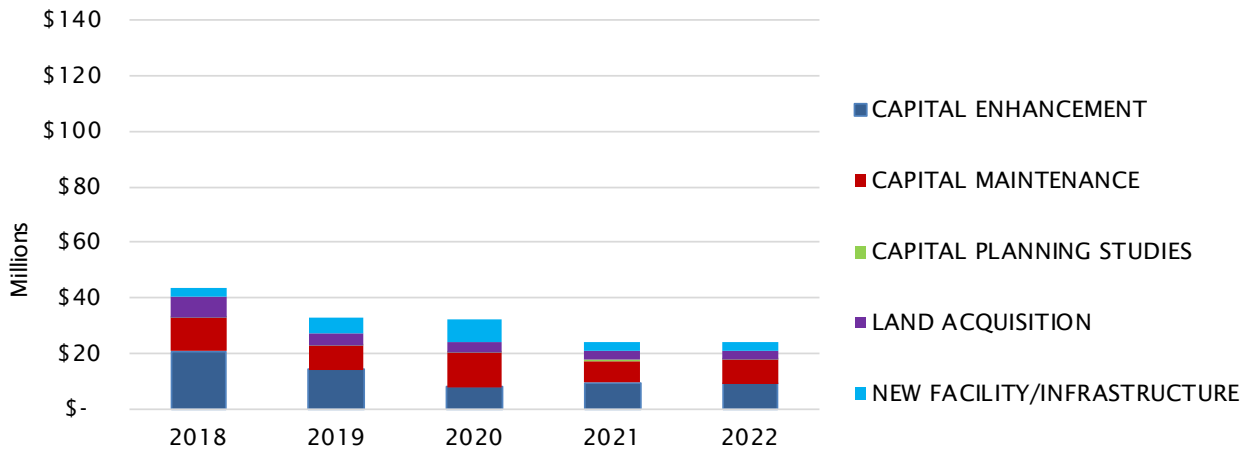
New Capital Project:

- Project results in the construction or acquisition of a new asset;
- Construction results 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; and
- Projects result in a durable, long lasting asset, with a useful life of at least 15 years.

2018-2023 FUNDING BY PROJECT TYPE



2018-2023 FUNDING BY PROJECT TYPE EXCLUDING UTILITIES



2018-2023 FUNDING SUMMARY BY TYPE

Project Type/ Project Title	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT	\$ 184,921,879	\$ 62,501,214	\$ 19,652,847	\$ 20,137,901	\$ 22,444,986	\$ 36,038,870	\$ 24,146,061
CAPITAL MAINTENANCE	193,290,273	37,273,025	24,468,553	30,488,997	25,085,879	47,017,846	28,955,973
CAPITAL PLANNING STUDIES	1,680,000	480,000	430,000	380,000	130,000	130,000	130,000
LAND ACQUISITION	26,069,063	8,020,000	4,553,000	3,960,000	3,984,285	3,511,656	2,040,122
NEW FACILITY/INFRASTRUCTURE	63,488,218	3,380,000	36,101,000	11,450,000	3,950,000	4,000,000	4,607,218
TOTAL	\$469,449,433	\$111,654,239	\$ 85,205,400	\$ 66,416,897	\$ 55,595,150	\$ 90,698,372	\$ 59,879,374

FUNDING BY PROJECT TYPE

FUNDING BY TYPE

Project Type/ Project Title	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
CAPITAL ENHANCEMENT							
19th St (Norwood to Sumac)	\$ 748,200	\$ 421,000	\$ 327,200	\$ -	\$ -	\$ -	\$ -
2017 MP -Wonderland Creek 1 Strm Sew	386,896	-	-	-	386,896	-	-
Aquatic Facility Enhancements	2,841,000	81,000	2,250,000	-	510,000	-	-
Athletic Field Improvements	2,000,000	100,000	-	250,000	650,000	1,000,000	-
Automated Meter Reading	740,122	-	-	-	-	-	740,122
Barker Dam Outlet	9,441,060	-	835,551	8,605,509	-	-	-
Bldr County/City Joint TIP Projects	151,000	151,000	-	-	-	-	-
Boulder Creek Flood Mitigation	1,250,000	1,250,000	-	-	-	-	-
Broadway Recon Violet to 36	5,575,000	-	5,575,000	-	-	-	-
Devil's Thumb Storage Tank	1,486,874	-	-	-	-	1,486,874	-
Emergent Lottery Projects	428,000	428,000	-	-	-	-	-
Foothills & Baseline Trunk Swr Repl	3,497,000	3,497,000	-	-	-	-	-
Foothills & Colorado Underpass	3,440,000	-	-	-	-	-	-
Four Mile Upstream of Upland	3,000,000	3,000,000	-	-	-	-	-
Goose Creek 19th to Folsom	5,550,000	-	1,500,000	1,250,000	500,000	800,000	1,500,000
Green Lake 2 Dam	5,429,499	-	-	75,000	486,773	4,867,726	-
Greenways Project	2,076,402	346,067	346,067	346,067	346,067	346,067	346,067
Gregory Creek Flood Mitigation	500,000	500,000	-	-	-	-	-
Intersection Safety Projects	875,880	95,640	396,840	80,520	302,880	-	-
Lakewood Dam	124,707	124,707	-	-	-	-	-
Lakewood Hydroelectric/PRV	300,000	-	300,000	-	-	-	-
Local Drainage Improvements	5,545,846	789,655	821,241	854,090	986,949	1,026,427	1,067,484
Misc Development Coordination	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Municipal Building Renovations - SW	560,000	560,000	-	-	-	-	-
NCWCD Conveyance - Carter Lake Pipe	32,050,000	32,050,000	-	-	-	-	-
Neighborhood and Community Park Improv	8,490,000	500,000	1,000,000	1,000,000	1,990,000	2,000,000	2,000,000
Neighborhood Speed Management Program	1,800,000	300,000	300,000	300,000	300,000	300,000	300,000
NTSA Implementation	1,250,000	350,000	300,000	150,000	150,000	150,000	150,000
Orodell Hydro/PRV Facility	250,000	100,000	100,000	50,000	-	-	-
Pavement Management Program	24,937,180	4,317,180	3,000,000	4,405,000	4,405,000	4,405,000	4,405,000
Pearl Street Hydro/PRV Facility	267,664	24,333	243,331	-	-	-	-
Railroad Quiet Zone Implementation	660,000	660,000	-	-	-	-	-
Regional Trails	480,000	80,000	80,000	80,000	80,000	80,000	80,000
Scott Carpenter Pool Redevelopment	8,523,600	8,523,600	-	-	-	-	-
Source Water Monitoring/Protection	200,000	100,000	100,000	-	-	-	-
Stormwater Quality Improvements	1,164,172	175,500	182,500	190,000	197,390	205,285	213,497
SW MGMT - Bear Canyon Creek	324,846	-	-	-	324,846	-	-
SW MGMT - Middle Boulder Creek	3,862,873	-	-	-	3,862,873	-	-
Tantra Park Shop Renovation	300,000	-	-	-	-	300,000	-
Upper Goose Creek Storm Sewer Impr	12,986,000	-	-	-	-	-	12,986,000
Wastewater Treatment Facility Pumps	300,000	-	150,000	-	-	150,000	-
Water System Security/Quality Imprv	240,000	150,000	90,000	-	-	-	-
West Senior Center Maj Maint & Reha	700,000	-	-	700,000	-	-	-
Wittemyer Ponds	5,519,534	-	100,000	492,685	4,926,849	-	-
WTSA Implementation	550,000	-	150,000	150,000	150,000	100,000	-
WWTF Activated Sludge	189,798	-	189,798	-	-	-	-
WWTF Electrical	210,000	-	-	-	-	-	-
WWTF Instrumentation/Control	1,889,540	126,532	1,265,319	189,798	-	-	307,891
WWTF Permit Improvements	21,529,186	-	-	919,232	1,838,463	18,771,491	-
TOTAL: CAPITAL ENHANCEMENT	\$ 184,921,879	\$ 62,501,214	\$ 19,652,847	\$ 20,137,901	\$ 22,444,986	\$ 36,038,870	\$ 24,146,061

CAPITAL MAINTENANCE

Agriculture and Water Facilities	\$ 770,000	\$ 110,000	\$ 110,000	\$ 125,000	\$ 125,000	\$ 150,000	\$ 150,000
Albion Dam	3,757,997	341,636	3,416,361	-	-	-	-
Aquatics Facility Repairs	976,000	-	723,000	-	253,000	-	-
Arapahoe Trunk Sewer Replacement	12,605,000	-	-	-	-	12,605,000	-
Barker Gravity Pipeline Repair	16,109,601	2,452,571	2,540,674	2,632,301	2,727,593	2,826,697	2,929,765
Betasso Hydroelectric / PRF	750,000	550,000	200,000	-	-	-	-
Boulder Canyon Hydro	415,000	90,000	75,000	-	-	-	250,000
Boulder Reservoir	118,434	-	-	118,434	-	-	-
Boulder Reservoir South Shore	4,400,000	3,400,000	-	-	-	-	1,000,000
Chatauqua Storage Tank	848,546	-	-	-	-	-	848,546
Collection System Monitoring	900,000	150,000	150,000	150,000	150,000	150,000	150,000
Condition Assessment Program	4,582,460	648,960	674,918	701,915	729,992	759,191	1,067,484
Cultural Resource/Facility Restorat	527,300	27,300	100,000	100,000	100,000	100,000	100,000
Data Backup and Disaster Recovery	231,700	74,300	-	-	-	53,300	104,100
Database Hardware Replacement	150,600	-	-	19,200	65,600	65,800	-
Deficient Street Light Pole Replace	605,000	-	121,000	121,000	121,000	121,000	121,000
Distribution Waterline Replacement	24,054,895	3,626,562	3,771,624	3,922,489	4,079,389	4,242,564	4,412,267
Downtown Parking Garage Major Maint	1,500,000	250,000	250,000	250,000	250,000	250,000	250,000
Downtown Pearl St Mall Amenity Repl	750,000	125,000	125,000	125,000	125,000	125,000	125,000
Ecological System Maintenance/Restr	800,000	300,000	100,000	100,000	100,000	100,000	100,000
End User Device Replacement	4,474,400	564,900	694,000	704,000	720,100	910,400	881,000
Essential Facility Maintenance	2,600,000	700,000	-	200,000	400,000	500,000	800,000

FUNDING BY PROJECT TYPE

Project Type/ Project Title	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
Facilities Maintenance	1,800,000	400,000	250,000	250,000	300,000	300,000	300,000
Farm Site Improvements	360,000	60,000	60,000	60,000	60,000	60,000	60,000
Farmer's Ditch	108,160	-	108,160	-	-	-	-
Fire Stations Major Maintenance	871,000	132,000	138,000	145,000	152,000	152,000	152,000
Flatiron Golf Course Repairs	600,000	-	-	-	600,000	-	-
Fleet - System Repairs/Replacements	460,000	80,000	220,000	80,000	-	80,000	-
Garage Stair Replacement 1500/1100	1,400,000	1,400,000	-	-	-	-	-
Goose Lake Dam	75,000	75,000	-	-	-	-	-
Hydro Facilities Rehab Program	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Interceptor Sewer Rehabilitation	10,059,920	10,059,920	-	-	-	-	-
Island Lake Dam	50,000	50,000	-	-	-	-	-
Kohler Hydro/PRV Facility	100,000	-	100,000	-	-	-	-
Kossler Dam	850,000	-	-	-	-	100,000	750,000
Major Capital Reconstruction	5,301,000	850,500	850,500	900,000	900,000	900,000	900,000
Major Infrastructure Maintenance	660,000	160,000	100,000	100,000	100,000	100,000	100,000
Major Street Reconstruction	2,503,200	411,600	411,600	420,000	420,000	420,000	420,000
Martin Park Shelter Major Maint	169,000	-	-	-	169,000	-	-
Maxwell Hydro/PRV Facility	100,000	-	-	-	100,000	-	-
Misc Facility Maintenance Projects	2,150,000	400,000	400,000	450,000	400,000	500,000	-
Multiuse Path Capital Maintenance	2,496,530	406,265	406,265	421,000	421,000	421,000	421,000
N Boulder Park Shelter Repair	120,000	-	-	-	120,000	-	-
Network Hardware Replacement	2,979,900	228,100	985,800	795,800	289,600	357,600	323,000
Ped Facilities Repair, Replace, ADA	3,729,970	606,985	606,985	629,000	629,000	629,000	629,000
Recreation Facility Repairs	3,000,000	-	1,000,000	-	-	1,500,000	500,000
Rehab Runway & Eastern Taxiway	5,793,889	379,445	-	5,414,444	-	-	-
Reservoir Water Treatment Facility	800,000	200,000	-	600,000	-	-	-
Sanitary Sewer Manhole Rehab	2,784,274	233,972	243,331	253,064	657,966	684,285	711,656
Sanitary Sewer Rehabilitation	19,912,089	3,108,139	3,102,465	3,226,563	3,355,626	3,489,851	3,629,445
Security Administration	124,100	3,500	37,600	35,200	30,000	17,800	-
Server Hardware Replacement	597,300	29,400	33,800	-	512,600	-	21,500
Sidewalk Maintenance	1,490,940	243,470	243,470	251,000	251,000	251,000	251,000
Signal Maintenance & Upgrade	400,000	200,000	-	-	-	200,000	-
Silver Lake Dam	100,000	100,000	-	-	-	-	-
Silver Lake Hydroelectric/PRV	450,000	-	200,000	-	-	-	250,000
Skyscraper Dam	171,071	-	-	-	171,071	-	-
Source Pumping and Hydro Rehab	1,721,570	150,000	150,000	343,472	351,210	359,259	367,629
Storm Sewer Rehabilitation	3,283,107	292,500	304,000	632,700	657,966	684,285	711,656
Sunshine Hydroelectric/PRV Facility	150,000	-	-	-	-	150,000	-
Transportation Coordination	3,402,907	351,000	365,000	633,000	657,966	684,285	711,656
Urban Forest Management	2,850,000	350,000	500,000	500,000	500,000	500,000	500,000
Utility Billing Computer System	255,000	-	-	255,000	-	-	-
Water Treatment Equipment Repl	456,080	100,000	100,000	100,000	50,000	52,000	54,080
Watershed Improvements	100,000	-	-	100,000	-	-	-
WWTF Cogeneration	184,481	-	-	184,481	-	-	-
WWTF Digester Cleaning	136,857	-	-	136,857	-	-	-
WWTF Digester Complex	2,200,000	-	200,000	2,000,000	-	-	-
WWTF Primary Clarifiers	11,250,000	-	-	-	900,000	9,000,000	1,350,000
WWTF Rehabilitation	1,500,000	250,000	250,000	250,000	250,000	250,000	250,000
Zone 1 Transmission Pipes	2,660,839	-	-	626,601	651,665	677,732	704,841
Zone 2 Transmission Pipes	3,860,104	-	-	909,016	945,377	983,192	1,022,519
Zone 3 Transmission Pipes	4,485,052	2,500,000	-	467,460	486,158	505,605	525,829
CAPITAL MAINTENANCE TOTAL	\$ 193,290,273	\$ 37,273,025	\$ 24,468,553	\$ 30,488,997	\$ 25,085,879	\$ 47,017,846	\$ 28,955,973
CAPITAL PLANNING STUDIES							
BPR Master Plan Update	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -
City Facilities Analysis/Consolidat	100,000	100,000	-	-	-	-	-
Facility Assessments	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Misc Space Needs and Analysis	480,000	80,000	80,000	80,000	80,000	80,000	80,000
OSMP Master Plan Update	200,000	100,000	100,000	-	-	-	-
TMP Update	350,000	150,000	200,000	-	-	-	-
TOTAL: CAPITAL PLANNING STUDIES	\$ 1,680,000	\$ 480,000	\$ 430,000	\$ 380,000	\$ 130,000	\$ 130,000	\$ 130,000

FUNDING BY PROJECT TYPE

Project Type/ Project Title	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
LAND ACQUISITION							
Mineral Rights Acquisition	\$ 600,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
New Property Stabilization	720,000	120,000	120,000	120,000	120,000	120,000	120,000
OSMP Campus Relocation	6,500,000	2,500,000	1,000,000	1,000,000	1,000,000	1,000,000	-
OSMP Real Estate Acquisition	13,500,000	4,500,000	2,500,000	2,000,000	2,000,000	1,500,000	1,000,000
Preflood Property Acquisition	4,029,063	600,000	633,000	660,000	684,285	711,656	740,122
Water Rights Acquisition	720,000	200,000	200,000	80,000	80,000	80,000	80,000
TOTAL: LAND ACQUISITION	\$ 26,069,063	\$ 8,020,000	\$ 4,553,000	\$ 3,960,000	\$ 3,984,285	\$ 3,511,656	\$ 2,040,122
NEW FACILITY/INFRASTRUCTURE							
30th St and Colorado Bike/Ped Under	\$ 5,900,000	\$ 1,300,000	\$ 4,600,000	\$ -	\$ -	\$ -	\$ -
Barker Dam Hydroelectric	507,218	-	-	-	-	50,000	457,218
Boulder Junction Pocket Park	350,000	350,000	-	-	-	-	-
Carter Lake Hydroelectric	2,800,000	50,000	250,000	2,500,000	-	-	-
Multiuse Path - Enhancements	1,260,000	180,000	180,000	225,000	225,000	225,000	225,000
New Neighborhood Park Development	200,000	-	-	-	-	-	200,000
Ped Facs Enh Missing Links Crossing	700,000	100,000	100,000	125,000	125,000	125,000	125,000
South Boulder Creek - Bond Proceeds	29,571,000	-	29,571,000	-	-	-	-
TIP Local Match/TMP Implementation	17,200,000	1,400,000	1,400,000	3,600,000	3,600,000	3,600,000	3,600,000
Valmont City Park Development	5,000,000	-	-	5,000,000	-	-	-
TOTAL: NEW FACILITY/INFRASTRUCTURE	\$ 63,488,218	\$ 3,380,000	\$ 36,101,000	\$ 11,450,000	\$ 3,950,000	\$ 4,000,000	\$ 4,607,218
TOTAL: CIP FUNDING BY TYPE	\$ 469,449,433	\$ 111,654,239	\$ 85,205,400	\$ 66,416,897	\$ 55,595,150	\$ 90,698,372	\$ 59,879,374

FUNDING BY FUND

One or more of the following 15 funds and funding sources are proposed for the CIP projects:

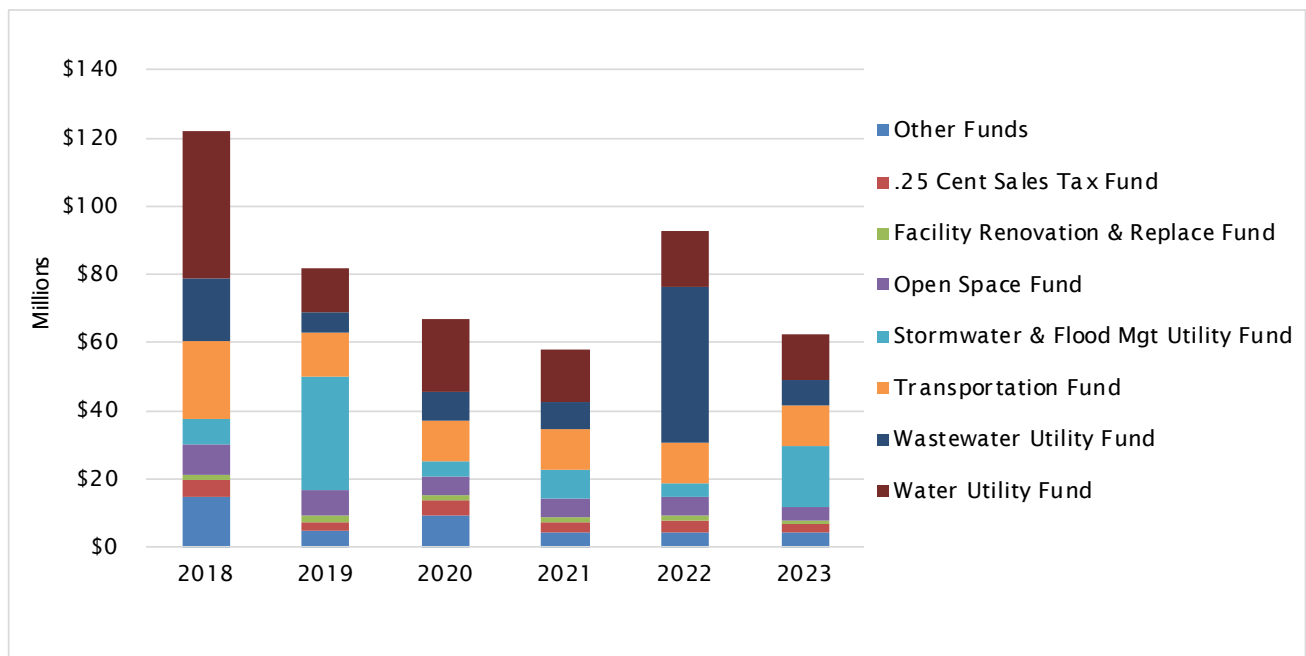
- .25 Cent Sales Tax Fund
- Airport Fund
- Boulder Junction Capital Improvement Fund
- Capital Development Fund
- Computer Replacement Fund
- Downtown Commercial District Fund
- Facility Renovation & Replace Fund
- Lottery Fund
- Open Space Fund
- Permanent Park & Recreation Fund
- Stormwater & Flood Management 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 Appendix of the 2018 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 require 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 2018-2023 CIP.

The following chart shows the distribution of six year funding by fund.

2018-2023 FUNDING BY FUND



Other funds include the Airport Fund, Capital Development Fund, Computer Replacement Fund, Boulder Junction Capital, Improvement Fund, Airport Fund, Downtown Commercial District Fund, Lottery Fund, Transportation Development Fund, and Permanent Park & Recreation Fund.

FUNDING BY FUND

2018-2023 FUNDING SUMMARY BY FUND

Fund	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
.25 Cent Sales Tax	\$ 18,556,600	\$ 4,196,600	\$ 1,572,000	\$ 4,072,000	\$ 2,572,000	\$ 3,572,000	\$ 2,572,000
Airport	5,793,889	379,445	-	5,414,444	-	-	-
Bldr Junction Cap Imprmt	350,000	350,000	-	-	-	-	-
Capital Development	5,860,000	5,660,000	-	-	-	-	200,000
Computer Replacement	8,558,000	900,200	1,751,200	1,554,200	1,617,900	1,404,900	1,329,600
Downtown Commercial District	3,650,000	1,775,000	375,000	375,000	375,000	375,000	375,000
Facility Renovation & Replace	9,926,000	1,742,000	2,111,000	1,705,000	1,624,000	1,662,000	1,082,000
Lottery	3,902,402	1,007,067	579,067	579,067	579,067	579,067	579,067
Open Space	29,437,300	9,007,300	5,270,000	4,415,000	4,465,000	3,940,000	2,340,000
Permanent Parks & Recreation	11,030,000	3,030,000	2,250,000	2,500,000	1,250,000	1,000,000	1,000,000
Stormwater & Flood Mgt Utility	75,506,710	7,056,155	33,474,241	4,382,290	8,356,671	4,209,438	18,027,915
Transportation	75,257,900	13,080,140	18,216,360	10,975,020	11,197,380	10,894,500	10,894,500
Transportation Development	5,751,000	2,301,000	650,000	650,000	650,000	850,000	650,000
Wastewater Utility	93,795,605	18,284,523	6,225,831	8,076,910	7,882,047	45,859,818	7,466,476
Water Utility	122,074,027	42,884,809	12,730,701	21,717,966	15,026,085	16,351,649	13,362,816
TOTAL	\$469,449,433	\$111,654,239	\$ 85,205,400	\$ 66,416,897	\$ 55,595,150	\$ 90,698,372	\$ 59,879,374

FUNDING BY FUND

FUNDING BY FUND

Fund	Estimated Total Cost	2018 Approved	2019 Projected	2021 Projected	2021 Projected	2022 Projected	2023 Projected
.25 Cent Sales Tax Fund							
Aquatic Facility Enhancements	\$ 591,000	\$ 81,000	\$ -	\$ -	\$ 510,000	\$ -	\$ -
Neighborhood and Community Park Improv	5,922,000	72,000	572,000	572,000	1,562,000	1,572,000	1,572,000
Scott Carpenter Pool Redevelopment	3,223,600	3,223,600	-	-	-	-	-
CAPITAL ENHANCEMENT subtotal	\$ 9,736,600	\$ 3,376,600	\$ 572,000	\$ 572,000	\$ 2,072,000	\$ 1,572,000	\$ 1,572,000
Boulder Reservoir South Shore	\$ 600,000	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ -
Recreation Facility Repairs	2,500,000	-	500,000	-	-	1,500,000	500,000
Urban Forest Management	2,720,000	220,000	500,000	500,000	500,000	500,000	500,000
CAPITAL MAINTENANCE subtotal	\$ 5,820,000	\$ 820,000	\$ 1,000,000	\$ 500,000	\$ 500,000	\$ 2,000,000	\$ 1,000,000
Valmont City Park Development	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000	\$ -	\$ -	\$ -
NEW FACILITY/ INFRASTRUCTURE subtotal	\$ 3,000,000	\$ -	\$ -	\$ 3,000,000	\$ -	\$ -	\$ -
.25 Cent Sales Tax Fund Total	\$ 18,556,600	\$ 4,196,600	\$ 1,572,000	\$ 4,072,000	\$ 2,572,000	\$ 3,572,000	\$ 2,572,000
Airport Fund							
Rehab Runway & Eastern Taxiway	\$ 5,793,889	\$ 379,445	\$ -	\$ 5,414,444	\$ -	\$ -	\$ -
CAPITAL MAINTENANCE subtotal	\$ 5,793,889	\$ 379,445	\$ -	\$ 5,414,444	\$ -	\$ -	\$ -
Airport Fund Total	\$ 5,793,889	\$ 379,445	\$ -	\$ 5,414,444	\$ -	\$ -	\$ -
Bldr Junction Cap Imprvmt Fund							
Boulder Junction Pocket Park	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -
NEW FACILITY/ INFRASTRUCTURE subtotal	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -
Bldr Junction Cap Imprvmt Fund Total	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Development Fund							
Municipal Building Renovations - SW	\$ 360,000	\$ 360,000	\$ -	\$ -	\$ -	\$ -	\$ -
Scott Carpenter Pool Redevelopment	5,300,000	5,300,000	-	-	-	-	-
CAPITAL ENHANCEMENT subtotal	\$ 5,660,000	\$ 5,660,000	\$ -	\$ -	\$ -	\$ -	\$ -
New Neighborhood Park Development	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000
NEW FACILITY/ INFRASTRUCTURE subtotal	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Capital Development Fund Total	\$ 5,860,000	\$ 5,660,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Computer Replacement Fund							
Data Backup and Disaster Recovery	\$ 231,700	\$ 74,300	\$ -	\$ -	\$ -	\$ 53,300	\$ 104,100
Database Hardware Replacement	150,600	-	-	19,200	65,600	65,800	-
End User Device Replacement	4,474,400	564,900	694,000	704,000	720,100	910,400	881,000
Network Hardware Replacement	2,979,900	228,100	985,800	795,800	289,600	357,600	323,000
Security Administration	124,100	3,500	37,600	35,200	30,000	17,800	-
Server Hardware Replacement	597,300	29,400	33,800	-	512,600	-	21,500
CAPITAL MAINTENANCE subtotal	\$ 8,558,000	\$ 900,200	\$ 1,751,200	\$ 1,554,200	\$ 1,617,900	\$ 1,404,900	\$ 1,329,600
Computer Replacement Fund Total	\$ 8,558,000	\$ 900,200	\$ 1,751,200	\$ 1,554,200	\$ 1,617,900	\$ 1,404,900	\$ 1,329,600
Downtown Commercial District Fund							
Downtown Parking Garage Major Maint	\$ 1,500,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Downtown Pearl St Mall Amenity Repl	750,000	125,000	125,000	125,000	125,000	125,000	125,000
Garage Stair Replacement 1500/1100	1,400,000	1,400,000	-	-	-	-	-
CAPITAL MAINTENANCE subtotal	\$ 3,650,000	\$ 1,775,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000
Downtown Commercial District Fund Total	\$ 3,650,000	\$ 1,775,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000

FUNDING BY FUND

Fund	Estimated Total Cost	2018 Approved	2019 Projected	2021 Projected	2021 Projected	2022 Projected	2023 Projected
Facility Renovation & Replace Fund							
Municipal Building Renovations - SW	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -
Tantra Park Shop Renovation	300,000	-	-	-	-	300,000	-
West Senior Center Maj Maint & Reha	700,000	-	-	700,000	-	-	-
CAPITAL ENHANCEMENT subtotal	\$ 1,200,000	\$ 200,000	\$ -	\$ 700,000	\$ -	\$ 300,000	\$ -
Aquatics Facility Repairs	\$ 976,000	\$ -	\$ 723,000	\$ -	\$ 253,000	\$ -	\$ -
Essential Facility Maintenance	2,600,000	700,000	-	200,000	400,000	500,000	800,000
Fire Stations Major Maintenance	871,000	132,000	138,000	145,000	152,000	152,000	152,000
Fleet - System Repairs/Replacements	460,000	80,000	220,000	80,000	-	80,000	-
Martin Park Shelter Major Maint	169,000	-	-	-	169,000	-	-
Misc Facility Maintenance Projects	2,150,000	400,000	400,000	450,000	400,000	500,000	-
N Boulder Park Shelter Repair	120,000	-	-	-	120,000	-	-
Recreation Facility Repairs	500,000	-	500,000	-	-	-	-
CAPITAL MAINTENANCE subtotal	\$ 7,846,000	\$ 1,312,000	\$ 1,981,000	\$ 875,000	\$ 1,494,000	\$ 1,232,000	\$ 952,000
City Facilities Analysis/Consolidat	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -
Facility Assessments	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Misc Space Needs and Analysis	480,000	80,000	80,000	80,000	80,000	80,000	80,000
CAPITAL PLANNING STUDIES subtotal	\$ 880,000	\$ 230,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000
Facility Renovation & Replace Fund Total	\$ 9,926,000	\$ 1,742,000	\$ 2,111,000	\$ 1,705,000	\$ 1,624,000	\$ 1,662,000	\$ 1,082,000
Lottery Fund							
Emergent Lottery Projects	\$ 428,000	\$ 428,000	\$ -	\$ -	\$ -	\$ -	\$ -
Neighborhood and Community Park Improv	2,568,000	428,000	428,000	428,000	428,000	428,000	428,000
Greenways Project	906,402	151,067	151,067	151,067	151,067	151,067	151,067
CAPITAL ENHANCEMENT subtotal	\$ 3,902,402	\$ 1,007,067	\$ 579,067	\$ 579,067	\$ 579,067	\$ 579,067	\$ 579,067
Lottery Fund Total	\$ 3,902,402	\$ 1,007,067	\$ 579,067	\$ 579,067	\$ 579,067	\$ 579,067	\$ 579,067
Open Space Fund							
NTSA Implementation	\$ 1,250,000	\$ 350,000	\$ 300,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000
Regional Trails	480,000	80,000	80,000	80,000	80,000	80,000	80,000
WTSA Implementation	550,000	-	150,000	150,000	150,000	100,000	-
CAPITAL ENHANCEMENT subtotal	\$ 2,280,000	\$ 430,000	\$ 530,000	\$ 380,000	\$ 380,000	\$ 330,000	\$ 230,000
Agriculture and Water Facilities	\$ 770,000	\$ 110,000	\$ 110,000	\$ 125,000	\$ 125,000	\$ 150,000	\$ 150,000
Cultural Resource/Facility Restorat	527,300	27,300	100,000	100,000	100,000	100,000	100,000
Ecological System Maintenance/Restr	800,000	300,000	100,000	100,000	100,000	100,000	100,000
Facilities Maintenance	1,800,000	400,000	250,000	250,000	300,000	300,000	300,000
Farm Site Improvements	360,000	60,000	60,000	60,000	60,000	60,000	60,000
Major Infrastructure Maintenance	660,000	160,000	100,000	100,000	100,000	100,000	100,000
CAPITAL MAINTENANCE subtotal	\$ 4,917,300	\$ 1,057,300	\$ 720,000	\$ 735,000	\$ 785,000	\$ 810,000	\$ 810,000
OSMP Master Plan Update	\$ 200,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -
CAPITAL PLANNING STUDIES subtotal	\$ 200,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -
Mineral Rights Acquisition	\$ 600,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
New Property Stabilization	720,000	120,000	120,000	120,000	120,000	120,000	120,000
OSMP Campus Relocation	6,500,000	2,500,000	1,000,000	1,000,000	1,000,000	1,000,000	-
OSMP Real Estate Acquisition	13,500,000	4,500,000	2,500,000	2,000,000	2,000,000	1,500,000	1,000,000
Water Rights Acquisition	720,000	200,000	200,000	80,000	80,000	80,000	80,000
LAND ACQUISITION subtotal	\$ 22,040,000	\$ 7,420,000	\$ 3,920,000	\$ 3,300,000	\$ 3,300,000	\$ 2,800,000	\$ 1,300,000
Open Space Fund Total	\$ 29,437,300	\$ 9,007,300	\$ 5,270,000	\$ 4,415,000	\$ 4,465,000	\$ 3,940,000	\$ 2,340,000
Permanent Park & Recreation Fund							
Aquatic Facility Enhancements	\$ 2,250,000	\$ -	\$ 2,250,000	\$ -	\$ -	\$ -	\$ -
Athletic Field Improvements	2,000,000	100,000	-	250,000	650,000	1,000,000	-
CAPITAL ENHANCEMENT subtotal	\$ 4,250,000	\$ 100,000	\$ 2,250,000	\$ 250,000	\$ 650,000	\$ 1,000,000	\$ -
Boulder Reservoir South Shore	\$ 3,800,000	\$ 2,800,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
Flatiron Golf Course Repairs	600,000	-	-	-	600,000	-	-
Urban Forest Management	130,000	130,000	-	-	-	-	-
CAPITAL MAINTENANCE subtotal	\$ 4,530,000	\$ 2,930,000	\$ -	\$ -	\$ 600,000	\$ -	\$ 1,000,000
BPR Master Plan Update	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -
CAPITAL PLANNING STUDIES subtotal	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -
Valmont City Park Development	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -
NEW FACILITY/ INFRASTRUCTURE subtotal	\$ 2,000,000	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -
Permanent Park & Recreation Fund Total	\$ 11,030,000	\$ 3,030,000	\$ 2,250,000	\$ 2,500,000	\$ 1,250,000	\$ 1,000,000	\$ 1,000,000

FUNDING BY FUND

Fund	Estimated Total Cost	2018 Approved	2019 Projected	2021 Projected	2021 Projected	2022 Projected	2023 Projected
Stormwater & Flood Mgt Utility Fund							
2017 MP -Wonderland Creek 1 Stm Sew	\$ 386,896	\$ -	\$ -	\$ -	\$ 386,896	\$ -	\$ -
Boulder Creek Flood Mitigation	1,250,000	1,250,000	-	-	-	-	-
Four Mile Upstream of Upland	3,000,000	3,000,000	-	-	-	-	-
Goose Creek 19th to Folsom	5,550,000	-	1,500,000	1,250,000	500,000	800,000	1,500,000
Greenways Project	585,000	97,500	97,500	97,500	97,500	97,500	97,500
Gregory Creek Flood Mitigation	500,000	500,000	-	-	-	-	-
Local Drainage Improvements	5,545,846	789,655	821,241	854,090	986,949	1,026,427	1,067,484
Stormwater Quality Improvements	1,164,172	175,500	182,500	190,000	197,390	205,285	213,497
SW MGMT - Bear Canyon Creek	324,846	-	-	-	324,846	-	-
SW MGMT - Middle Boulder Creek	3,862,873	-	-	-	3,862,873	-	-
Upper Goose Creek Storm Sewer Impr	12,986,000	-	-	-	-	-	12,986,000
CAPITAL ENHANCEMENT subtotal	\$ 35,155,633	\$ 5,812,655	\$ 2,601,241	\$ 2,391,590	\$ 6,356,454	\$ 2,129,212	\$ 15,864,481
Storm Sewer Rehabilitation	\$ 3,283,107	\$ 292,500	\$ 304,000	\$ 632,700	\$ 657,966	\$ 684,285	\$ 711,656
Transportation Coordination	3,402,907	351,000	365,000	633,000	657,966	684,285	711,656
Utility Billing Computer System	65,000	-	-	65,000	-	-	-
CAPITAL MAINTENANCE subtotal	\$ 6,751,014	\$ 643,500	\$ 669,000	\$ 1,330,700	\$ 1,315,932	\$ 1,368,570	\$ 1,423,312
Preflood Property Acquisition	\$ 4,029,063	\$ 600,000	\$ 633,000	\$ 660,000	\$ 684,285	\$ 711,656	\$ 740,122
LAND ACQUISITION subtotal	\$ 4,029,063	\$ 600,000	\$ 633,000	\$ 660,000	\$ 684,285	\$ 711,656	\$ 740,122
South Boulder Creek - Bond Proceeds	\$ 29,571,000	\$ -	\$ 29,571,000	\$ -	\$ -	\$ -	\$ -
NEW FACILITY/ INFRASTRUCTURE subtotal	\$ 29,571,000	\$ -	\$ 29,571,000	\$ -	\$ -	\$ -	\$ -
Stormwater & Flood Mgt Utility Fund Total	\$ 75,506,710	\$ 7,056,155	\$ 33,474,241	\$ 4,382,290	\$ 8,356,671	\$ 4,209,438	\$ 18,027,915
Transportation Fund							
19th St (Norwood to Sumac)	\$ 748,200	\$ 421,000	\$ 327,200	\$ -	\$ -	\$ -	\$ -
Broadway Recon Violet to 36	5,575,000	-	5,575,000	-	-	-	-
Foothills & Colorado Underpass	3,440,000	3,440,000	-	-	-	-	-
Greenways Project	585,000	97,500	97,500	97,500	97,500	97,500	97,500
Intersection Safety Projects	875,880	95,640	396,840	80,520	302,880	-	-
Neighborhood Speed Management Program	1,800,000	300,000	300,000	300,000	300,000	300,000	300,000
Pavement Management Program	24,937,180	4,317,180	3,000,000	4,405,000	4,405,000	4,405,000	4,405,000
Railroad Quiet Zone Implementation	660,000	660,000	-	-	-	-	-
CAPITAL ENHANCEMENT subtotal	\$ 38,621,260	\$ 9,331,320	\$ 9,696,540	\$ 4,883,020	\$ 5,105,380	\$ 4,802,500	\$ 4,802,500
Deficient Street Light Pole Replace	\$ 605,000	\$ -	\$ 121,000	\$ 121,000	\$ 121,000	\$ 121,000	\$ 121,000
Major Capital Reconstruction	5,301,000	850,500	850,500	900,000	900,000	900,000	900,000
Major Street Reconstruction	2,503,200	411,600	411,600	420,000	420,000	420,000	420,000
Multiuse Path Capital Maintenance	2,496,530	406,265	406,265	421,000	421,000	421,000	421,000
Ped Facilities Repair, Replace, ADA	3,729,970	606,985	606,985	629,000	629,000	629,000	629,000
Sidewalk Maintenance	1,490,940	243,470	243,470	251,000	251,000	251,000	251,000
CAPITAL MAINTENANCE subtotal	\$ 16,126,640	\$ 2,518,820	\$ 2,639,820	\$ 2,742,000	\$ 2,742,000	\$ 2,742,000	\$ 2,742,000
TMP Update	\$ 350,000	\$ 150,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -
CAPITAL PLANNING STUDIES subtotal	\$ 350,000	\$ 150,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -
30th St and Colorado Bike/Ped Under	\$ 4,600,000	\$ -	\$ 4,600,000	\$ -	\$ -	\$ -	\$ -
Multiuse Path - Enhancements	1,260,000	180,000	180,000	225,000	225,000	225,000	225,000
Ped Facs Enh Missing Links Crossing	700,000	100,000	100,000	125,000	125,000	125,000	125,000
TIP Local Match/TMP Implementation	13,600,000	800,000	800,000	3,000,000	3,000,000	3,000,000	3,000,000
NEW FACILITY/INFRASTRUCTURE subtotal	\$ 20,160,000	\$ 1,080,000	\$ 5,680,000	\$ 3,350,000	\$ 3,350,000	\$ 3,350,000	\$ 3,350,000
Transportation Fund Total	\$ 75,257,900	\$ 13,080,140	\$ 18,216,360	\$ 10,975,020	\$ 11,197,380	\$ 10,894,500	\$ 10,894,500
Transportation Development Fund							
Bldr County/City Joint TIP Projects	\$ 151,000	\$ 151,000	\$ -	\$ -	\$ -	\$ -	\$ -
Misc Development Coordination	300,000	50,000	50,000	50,000	50,000	50,000	50,000
TIP Local Match TMP Implementation	3,600,000	600,000	600,000	600,000	600,000	600,000	600,000
CAPITAL ENHANCEMENT subtotal	\$ 4,051,000	\$ 801,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 650,000
Signal Maintenance & Upgrade	\$ 400,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 200,000	\$ -
CAPITAL MAINTENANCE subtotal	\$ 400,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 200,000	\$ -
30th St and Colorado Bike/Ped Under	\$ 1,300,000	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ -
NEW FACILITY/ INFRASTRUCTURE subtotal	\$ 1,300,000	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ -
Transportation Development Fund Total	\$ 5,751,000	\$ 2,301,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 850,000	\$ 650,000

FUNDING BY FUND

Fund	Estimated Total Cost	2018 Approved	2019 Projected	2021 Projected	2021 Projected	2022 Projected	2023 Projected
Wastewater Utility Fund							
Foothills & Baseline Trunk Swr Repl	\$ 3,497,000	\$ 3,497,000	\$ -	\$ -	\$ -	\$ -	\$ -
Wastewater Treatment Facility Pumps	300,000	-	150,000	-	-	150,000	-
WWTF Activated Sludge	189,798	-	189,798	-	-	-	-
WWTF Electrical	210,000	210,000	-	-	-	-	-
WWTF Instrumentation/Control	1,889,540	126,532	1,265,319	189,798	-	-	307,891
WWTF Permit Improvements	21,529,186	-	-	919,232	1,838,463	18,771,491	-
CAPITAL ENHANCEMENT subtotal	\$ 27,615,524	\$ 3,833,532	\$ 1,605,117	\$ 1,109,030	\$ 1,838,463	\$ 18,921,491	\$ 307,891
Arapahoe Trunk Sewer Replacement	\$ 12,605,000	\$ -	\$ -	\$ -	\$ -	\$ 12,605,000	\$ -
Collection System Monitoring	900,000	150,000	150,000	150,000	150,000	150,000	150,000
Condition Assessment Program	4,582,460	648,960	674,918	701,915	729,992	759,191	1,067,484
Interceptor Sewer Rehabilitation	10,059,920	10,059,920	-	-	-	-	-
Sanitary Sewer Manhole Rehab	2,784,274	233,972	243,331	253,064	657,966	684,285	711,656
Sanitary Sewer Rehabilitation	19,912,089	3,108,139	3,102,465	3,226,563	3,355,626	3,489,851	3,629,445
Utility Billing Computer System	65,000	-	-	65,000	-	-	-
WWTF Cogeneration	184,481	-	-	184,481	-	-	-
WWTF Digester Cleaning	136,857	-	-	136,857	-	-	-
WWTF Digester Complex	2,200,000	-	200,000	2,000,000	-	-	-
WWTF Primary Clarifiers	11,250,000	-	-	-	900,000	9,000,000	1,350,000
WWTF Rehabilitation	1,500,000	250,000	250,000	250,000	250,000	250,000	250,000
CAPITAL MAINTENANCE subtotal	\$ 66,180,081	\$ 14,450,991	\$ 4,620,714	\$ 6,967,880	\$ 6,043,584	\$ 26,938,327	\$ 7,158,585
Wastewater Utility Fund Total	\$ 93,795,605	\$ 18,284,523	\$ 6,225,831	\$ 8,076,910	\$ 7,882,047	\$ 45,859,818	\$ 7,466,476
Water Utility Fund							
Automated Meter Reading	\$ 740,122	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 740,122
Barker Dam Outlet	9,441,060	-	835,551	8,605,509	-	-	-
Devil's Thumb Storage Tank	1,486,874	-	-	-	-	1,486,874	-
Green Lake 2 Dam	5,429,499	-	-	75,000	486,773	4,867,726	-
Lakewood Dam	124,707	124,707	-	-	-	-	-
Lakewood Hydroelectric/PRV	300,000	-	300,000	-	-	-	-
NCWCD Conveyance - Carter Lake Pipe	32,050,000	32,050,000	-	-	-	-	-
Orodell Hydro/PRV Facility	250,000	100,000	100,000	50,000	-	-	-
Pearl Street Hydro/PRV Facility	267,664	24,333	243,331	-	-	-	-
Source Water Monitoring/Protection	200,000	100,000	100,000	-	-	-	-
Water System Security/Quality Imprv	240,000	150,000	90,000	-	-	-	-
Wittemyer Ponds	5,519,534	-	100,000	492,685	4,926,849	-	-
CAPITAL ENHANCEMENT subtotal	\$ 56,049,460	\$ 32,549,040	\$ 1,768,882	\$ 9,223,194	\$ 5,413,622	\$ 6,354,600	\$ 740,122
Albion Dam	\$ 3,757,997	\$ 341,636	\$ 3,416,361	\$ -	\$ -	\$ -	\$ -
Barker Gravity Pipeline Repair	16,109,601	2,452,571	2,540,674	2,632,301	2,727,593	2,826,697	2,929,765
Betasso Hydroelectric / PRF	750,000	550,000	200,000	-	-	-	-
Boulder Canyon Hydro	415,000	90,000	75,000	-	-	-	250,000
Boulder Reservoir	118,434	-	-	118,434	-	-	-
Chatauqua Storage Tank	848,546	-	-	-	-	-	848,546
Distribution Waterline Replacement	24,054,895	3,626,562	3,771,624	3,922,489	4,079,389	4,242,564	4,412,267
Farmer's Ditch	108,160	-	108,160	-	-	-	-
Goose Lake Dam	75,000	75,000	-	-	-	-	-
Hydro Facilities Rehab Program	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Island Lake Dam	50,000	50,000	-	-	-	-	-
Kohler Hydro/PRV Facility	100,000	-	100,000	-	-	-	-
Kossler Dam	850,000	-	-	-	-	100,000	750,000
Maxwell Hydro/PRV Facility	100,000	-	-	-	100,000	-	-
Reservoir Water Treatment Facility	800,000	200,000	-	600,000	-	-	-
Silver Lake Dam	100,000	100,000	-	-	-	-	-
Silver Lake Hydroelectric/PRV	450,000	-	200,000	-	-	-	250,000
Skyscraper Dam	171,071	-	-	-	171,071	-	-
Source Pumping and Hydro Rehab	1,721,570	150,000	150,000	343,472	351,210	359,259	367,629
Sunshine Hydroelectric/PRV Facility	150,000	-	-	-	-	150,000	-
Utility Billing Computer System	125,000	-	-	125,000	-	-	-
Water Treatment Equipment Repl	456,080	100,000	100,000	100,000	50,000	52,000	54,080
Watershed Improvements	100,000	-	-	100,000	-	-	-
Zone 1 Transmission Pipes	2,660,839	-	-	626,601	651,665	677,732	704,841
Zone 2 Transmission Pipes	3,860,104	-	-	909,016	945,377	983,192	1,022,519
Zone 3 Transmission Pipes	4,485,052	2,500,000	-	467,460	486,158	505,605	525,829
CAPITAL MAINTENANCE subtotal	\$ 62,717,349	\$ 10,285,769	\$ 10,711,819	\$ 9,994,773	\$ 9,612,463	\$ 9,947,049	\$ 12,165,476
Barker Dam Hydroelectric	\$ 507,218	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 457,218
Carter Lake Hydroelectric	2,800,000	50,000	250,000	2,500,000	-	-	-
NEW FACILITY/ INFRASTRUCTURE subtotal	\$ 3,307,218	\$ 50,000	\$ 250,000	\$ 2,500,000	\$ -	\$ 50,000	\$ 457,218
Water Utility Fund Total	\$ 122,074,027	\$ 42,884,809	\$ 12,730,701	\$ 21,717,966	\$ 15,026,085	\$ 16,351,649	\$ 13,362,816
TOTAL CIP FUNDING BY FUND	\$ 469,449,433	\$ 111,654,239	\$ 85,205,400	\$ 66,416,897	\$ 55,595,150	\$ 90,698,372	\$ 59,879,374



3A | SPECIAL HIGHLIGHT: COMMUNITY, CULTURE & SAFETY TAX

INTRODUCTION

The Community, Culture, and Safety (CCS) sales and use tax funds key capital improvements with Boulder's first citywide, large-scale, "pay as you go" special sales and use tax. Implementation of this multi-departmental, multiyear effort is currently underway, consistent with 2014 voter approval. A website has been created that allows the community to track the progress of implementation of CCS projects from the 2014 ballot [here](#).



OVERVIEW OF 2015-2017 COMMUNITY, CULTURE, AND SAFETY CAPITAL IMPROVEMENT PROJECTS

In November 2014, Boulder voters approved the Community, Culture, and Safety tax, a three-year 0.3 percent sales and use tax increase. The ballot language projected that the revenue from this temporary tax increase will yield \$27.6 million for specific projects to improve community spaces, bolster cultural projects and organizations, and enhance safety.

PROJECT HIGHLIGHTS AND STATUS

Twelve projects will be implemented with the sales and use tax funds. The individual projects are briefly described below, and details related to each project can be found on the [CCS website](#).

Highlights at a Glance

12 individual projects :

- 4 completed
- 4 under construction
- 4 in design and planning phase

62 percent of total funding has been spent or encumbered as of June, 2017.

COMMUNITY, CULTURE & SAFETY TAX

University Hill		
Pedestrian Lighting	The existing vehicle-scale lighting will be supplemented (and in some cases replaced) with new energy-efficient LED fixtures along key pedestrian corridors on University Hill.	\$1.97 million
Event Street	Creation of a street designed for vehicles, pedestrians, and bicycles, as well as the ability to easily close the portion of Pennsylvania Avenue between the alley to the west and 13th Street to the east for events. Status: Under Construction Anticipated Completion: Summer 2017	\$1,005,000
Street Trees Improvements	Design and install an irrigation system for the trees along the sidewalk. Replace failing trees and install city-standard tree grates and guards. Status: Work completed in June 2016	\$544,739
Civic Area		
Civic Area Improvements	These improvements are part of the first phase of the larger Civic Area redevelopment project and Master Plan which was adopted in July of 2015 with the park design plan approved in November of 2015. Project components include: Enhancements to areas north and south of Boulder Creek, including infrastructure to link the main library and creek, playgrounds and nature play areas along both sides of the creek, and improvements in the area near the Gilbert White Memorial. Improvements to community spaces including: the main library café/courtyard, the north library plaza, the north municipal lawn, and the sister cities plaza. Connectivity and access improvements, including: creating gateways (possibly via art) and related wayfinding; pathway enhancements; signage; and improved lighting across the site. Status: Under Construction Anticipated Completion: Fall 2017	\$9.3 million
Boulder Creek		
Path Lighting	Design and construction of lighting along five segments of the Boulder Creek Path that will provide adequate and appropriate light levels for nighttime visibility and safety by using fully controlled luminaries. Status: In planning/design phase Expected Completion: Spring 2018	\$1.04 million
Path Improvements	Design and construction along four segments of Boulder Creek Path that will add a generally-separated pedestrian path to allow a separation of bicycle and pedestrian traffic along the corridor. Status: In planning/design phase Expected Completion: Spring 2018	\$885,000
Arapahoe Avenue and 13th Street Underpass	Design and construction to renovate the pedestrian and bicycle underpass at the Boulder Creek Path, between Boulder Creek and 13 th Street. Status: In planning/design phase Expected Completion: Fall 2018	\$2.5 million
Eben G. Fine Park Stream Bank Restoration	Stream bank stabilization, erosion protection, habitat restoration, and recreation enhancements within Eben G. Fine Park between the northern sidewalk and Boulder Creek. Status: Work completed in June 2016	\$593,717

COMMUNITY, CULTURE & SAFETY TAX

Public Art		
Art Projects	Public art projects for the Civic Area, University Hill, Boulder Junction garage east face, north Boulder, a temporary neighborhood series, and additional art maintenance projects. Status: First maintenance project completed Expected Completion: Winter 2017/2018	\$600,000
Chautauqua		
Pedestrian Safety Access and Lighting Improvements	Improvements include: pedestrian lighting, and improved access and pedestrian safety along Baseline Road via new sidewalks, re-aligned parking, enhanced pedestrian crossing treatments, and related safety enhancements like lighting and wayfinding signs. Status: Pedestrian Safety Access complete, Lighting work in planning phase Expected Completion: Spring 2018 for lighting	\$1.6 million
Dairy Center		
Theater Improvements	Through a funding agreement; Add soundproofing, dressing rooms, reconfigure one theater into a black box theater, expand and modernize the building's lobby and façade, and modify an outdoor deck area as a special events space. Status: Work completed in Winter 2016	\$3.85 million
Museum of Boulder		
Museum Improvements	Through a funding agreement; Convert the building into an expanded museum that will accommodate larger displays, Smithsonian-class traveling exhibits, science and technology exhibits, as well as enhanced programming and space for children. Status: Under Construction Expected Completion: Spring 2018	\$4 million

IMPLEMENTATION

To ensure that the city meets the spending and timing goals of the ballot measure, the city has collected spending plans for each project and is closely monitoring construction progress. The table below shows the annual expenditure plan for each project for 2015 through 2018. Please note, due to tax revenues exceeding original projections, several projects' budgets have been increased. Staff continues to withhold contingency funds and will decide upon final disposition of funds after all revenues are collected.

PROJECT AND PROCESS UPDATES

City Council will be updated on the progress of CCS projects through periodic updates as part of Information Packet items and council Heads Up announcements. Public updates will be announced through press releases, social media and commemorative events as some of the key projects break ground or are completed. Information on projects that have traffic impacts will be provided to the public and media through the [Boulder Cone Zones](#) map and other outreach materials. Project status updates are available on the [CCS website](#).

COMMUNITY, CULTURE & SAFETY TAX

2016 – 2018 SPENDING PLAN FOR COMMUNITY, CULTURE AND SAFETY PROJECTS

	Project Budget	2015 Actual	2016 Actual	2017 Projected	2018 Projected
Hill Residential Pedestrian Lighting*	\$ 2,000,000	\$ 44,590	\$ 1,924,593	\$ -	\$ -
Hill Commercial District Event Street	1,005,000	6,086	81,732	917,182	-
Hill Commercial District Irrigation and Street Tree Improvements*	570,000	38,137	506,603	-	-
<i>University Hill Total</i>	<i>\$ 3,575,000</i>	<i>\$ 88,813</i>	<i>\$ 2,512,928</i>	<i>\$ 917,182</i>	<i>-</i>
Civic Area	\$ 9,300,000	\$ 389,314	\$ 1,476,864	\$ 7,433,823	-
Boulder Creek Path Lighting	\$ 1,040,000	\$ 5,314	\$ 18,405	\$ 495,810	\$ 230,471
Boulder Creek Path Improvements	885,000	2,739	37,645	550,000	294,616
Boulder Creek Arapahoe Avenue/13 th Street Underpass	2,500,000	13,201	134,658	257,601	2,094,540
Boulder Creek Eben Fine Park Stream Bank Restoration*	700,000	136,012	457,705	-	-
<i>Boulder Creek Total</i>	<i>\$ 5,125,000</i>	<i>\$ 157,266</i>	<i>\$ 648,414</i>	<i>\$ 1,303,411</i>	<i>\$2,619,627</i>
Public Art	\$ 600,000	\$ 12,750	\$ 17,137	\$ 290,113	\$ 280,000
Chautauqua	\$ 1,600,000	\$ 72,593	\$ 486,022	\$ 931,926	\$ 109,459
Dairy Center for the Arts	\$ 3,850,000	\$1,346,703	\$ 2,503,297	\$ -	\$ -
Museum of Boulder	\$ 4,000,000	\$ -	\$ 2,624,762	\$ 1,375,238	-
Contingency/Admin	\$ 505,000	\$ 6,785	\$ 116	\$ -	\$ -
TOTAL	\$28,555,000	\$2,074,224	\$10,269,539	\$12,251,693	\$3,009,086

CCS RENEWAL

On November 7, 2017, Boulder voters voted in favor of renewing the Community, Culture, Safety Sales and Use Tax for four years (2018-2021), supporting funding for a diverse mix of projects as shown below. More information on the renewal can be found on the [project website](#).

City Projects	Recommended Funding
Citywide Radio Infrastructure	\$ 5,500,000
Library-North Boulder Branch	5,000,000
Relocate Fire Station #3	12,500,000
Scott Carpenter Pool Replacement	4,200,000
Public Art	400,000
Fourmile Canyon Creek Greenways Improvements (19th to Broadway)	3,500,000
Total City Projects:	\$ 31,100,000

Community Projects	Recommended Funding
Growing Gardens	\$ 87,000
Community Cycles	822,500
Meals on Wheels	1,600,000
Studio Arts Boulder	1,750,000
Center for ReSource Conservation	1,400,000
KGNU	1,250,000
Boulder Museum of Contemporary Art	1,000,000
Total Community Projects:	\$ 7,909,500

Total Project Package:	\$ 39,009,500
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3B | SPECIAL HIGHLIGHT: CENTRAL BOULDER LONG-TERM PLANNING & CITY FACILITIES ASSESSMENT

INTRODUCTION

The city is continuing with three long-term planning projects along a central Boulder corridor including A Boulder Community Project: Alpine-Balsam (Alpine-Balsam), the Boulder Civic Area (Civic Area), and University Hill Reinvestment. A fourth project, the City Facilities Assessment, will inform outcomes of both the Civic Area and the Alpine-Balsam projects. This special highlight section on the Central Boulder Long-Term Planning projects serves to bring information together in one place, to show the major components of the work plan and supporting budget. These efforts summarized below are informed by the “Central Broadway Corridor Design Framework,” a planning tool that was accepted by City Council in June 2017. This is not an all-inclusive list, but rather focuses on a handful of projects that are centrally organized and holistically managed by an inter-departmental team of city staff.

PROJECT OVERVIEW & FOCUS FOR 2017

Alpine-Balsam - A Boulder Community Project: Alpine-Balsam site includes 8.8 acres of property that formerly housed the Boulder Community Health (BCH) on Broadway. The city officially purchased the BCH – Broadway campus site in Dec. 2015. The property includes over 355,000 square feet of existing building space, a five-story parking structure, and two large surface parking areas. The planning process for the site will involve extensive public participation over the next few years that will inform changes to the Boulder Valley Comprehensive Plan (BVCP) and ultimately how the site will be used. The Alpine-Balsam project presents a unique opportunity to help ensure that future redevelopment of the site fits the community’s vision and goals, responds to community needs, and enhances the character of the neighborhood.

In June 2017, the City Council adopted the Alpine-Balsam Vision Plan, which established a Vision and Guiding Principles for the redevelopment of the site, supported by strategies and performance criteria. For the rest of 2017, the focus will be on the second phase of work including area planning, site



CENTRAL BOULDER

analysis, and redevelopment scenario analysis. This phase of work will include an urban design plan for the site and preliminary area plan based on a range of options building on the initial planning phase completed in early 2017. Prior to planning, additional site analysis and technical studies will likely include geotechnical, travel demand management, and the future of healthcare services. The area plan will focus on the city-owned property and adjacent areas of influence. The plan will address land uses, public spaces, community facilities, parks and trail connections, drainage, streetscape, transportation, and building design guidelines, and other site and community needs that arise during the planning process. Continuous community engagement will occur throughout this process in order to help determine the future use of the Alpine-Balsam site.

Civic Area – The Boulder Civic Area site includes the area between Canyon Boulevard and Arapahoe Avenue and between 9th and 14th Streets. A new Civic Area Master Plan, adopted in June 2015, expresses a long-term vision to transform the Civic Area into an even more unique place that reflects the community’s shared values and diversity. Implementation of the Boulder Civic Area Master Plan is expected to take place over the next 10 to 20 years.

The first phase of implementation is currently moving forward thanks to passage of the November 2014 Community, Culture and Safety tax. In September 2016, the city began construction on the Phase I park improvements (\$8.7 million) in coordination with the more than \$5 million from the tax devoted to Boulder Creek Path improvements, 11th Street lighting, public art and Arapahoe Avenue underpass improvements at 13th Street. Subsequent phases and timing to implement the remainder of the Boulder Civic Area Master Plan will be defined by analyses currently underway, informed by community input, guided by council decision making, and dependent on the available of funding sources.

The city is also continuing efforts to define the appropriate management, operation, and funding structure for the Civic Area. This work will be done in conjunction with and include further exploration to create a Public Market Hall – a key element identified in the Master Plan. Specific to the Market Hall, this will include community engagement concerning a phasing approach and how the Market Hall might complement both the Civic Area as a whole and the continued success of the Boulder County Farmers Market program.

Additional Master Plan implementation is taking the form of developing concept-level program and spatial planning analysis and alternatives for the East Bookend – the portion of the Civic Area bounded by Arapahoe, 13th, Canyon, and 14th. In addition to the existing elements such as the Dushanbe Tea House and the Boulder Museum of Contemporary Art, other elements may include city facilities, a Public Market Hall, parking, etc. This planning work is being coordinated with the City Facilities Assessment, planning for further park improvements east of Broadway, the Canyon Complete Street project, and mobility planning around and nearby the downtown transit hub. These work efforts will help define the full program of uses to be accommodated in the East Bookend and their potential configuration.

City Facilities Assessment – Currently, city staff and services are spread out across 41 city-owned facilities and approximately 54,000 square feet of leased space throughout the community. This situation inhibits high-quality customer service, impedes efficiency, and is not economical. The Civic Area Master Plan recommended the removal of two city office buildings (Park Central and New Britain) in the High Hazard Flood Zone as well as the possibility of repurposing the Municipal and/or Atrium Buildings. The purchase of the Alpine-Balsam site created an opportunity to consider both the Civic Area and the Alpine-Balsam site in responding to the city’s decentralized office challenges in a way that reflects Boulder’s vision and values. To address these challenges and take advantage of these opportunities, the city initiated the City Facilities Assessment.

The city, with consultant support, is evaluating city facilities space and program requirements to better address the increasing costs of maintaining and operating multiple facilities, leasing costs, and inefficiencies generated

CENTRAL BOULDER

by fragmented workgroups spread across different buildings. The analysis specifically focuses on identifying which city functions should be grouped at key locations around the city. Currently Alpine-Balsam is envisioned as a hub for community services, with a central services center that will enable visitors to do most of their business with the city in one convenient location, while the Civic Area is envisioned as a hub for civic and community gathering, with multi-use meeting spaces that can host multiple events and functions including City Council, public and private community events, visitor orientation, and potentially a municipal courtroom.

This phase of work will also develop guiding principles for new and renovated city facilities in the context of “what is the city facility of the future for Boulder?” With input from the community, the goal is to deliberately group functions, departments, and work in such a way that engages the community, provides excellent and accessible customer service, improves efficiency for staff, makes buildings easy to maintain and operate at peak performance, and reflects the vision and values of the community.

This first phase of work will be completed in Q3 of 2017. For the balance of 2017 and continuing into 2018, the second phase of work will develop city-wide facility design guidelines and performance standards and refine city space needs into a complete program that could be utilized in design of facilities at Alpine-Balsam and/or in the Civic Area. This work also will include an initial analysis of different redevelopment strategies for city facilities, such as the pros and cons of city ownership of facilities versus a leasing arrangement.

University Hill Reinvestment – CU Conference Center/Hotel – In 2014, Boulder City Council made it a priority to improve quality of life on University Hill for residents, visitors and businesses. The University Hill Reinvestment Strategy provides a [framework](#) for pursuing improvements, with the city acting as a catalyst for sustained public/private partnerships and private investment over the long term. The details and recommended budget for the University Hill Reinvestment Strategy currently resides with the Community Vitality Department in the form of funding for University Hill Community Development programs and related pilot projects (Hill Employee EcoPass Program and the Residential Service District).

However, this section highlights the connection from the University Hill to the Civic Area east bookend. The University of Colorado is in the process of selecting a private partner for the development and operation of a Hotel/Conference Center at the corner of Grandview and Broadway. In addition, a private hotel development is being considered across Broadway. Those projects, combined with other redevelopment efforts on the Hill, amplify the need for high-quality multi-modal connections between the Hill and the Civic Area/Downtown, and a well-coordinated access and parking management strategy between the CU Hotel/Conference Center and the Hill. Regarding the multi-modal Hill/Civic Area connections, city staff has conducted concept-level analysis of a physical/mobility connections (particularly with respect to the so-called “Andrews Arboretum Promenade”); consultant services will be needed to advance the analysis to a more refined level. Regarding an access and parking management strategy, consultant services will be needed to further that effort.

The planning efforts related to the CU conference center/hotel may involve capital improvements investments from the city in future years depending on the outcome of current work efforts.

LONG-TERM PLANNING AND FUTURE IMPLEMENTATION

As noted previously, the Civic Area and Alpine-Balsam are multi-year projects. The efforts to transform the Civic Area, redevelop the Alpine-Balsam site, promote reinvestment in University Hill and support CU’s development of a hotel/conference facility are all anticipated to continue through 2017 and into 2018. Phases and timing to implement these planning projects will be defined by analyses currently underway, informed by community input, guided by council decision making, and dependent on the availability of funding sources.

CENTRAL BOULDER

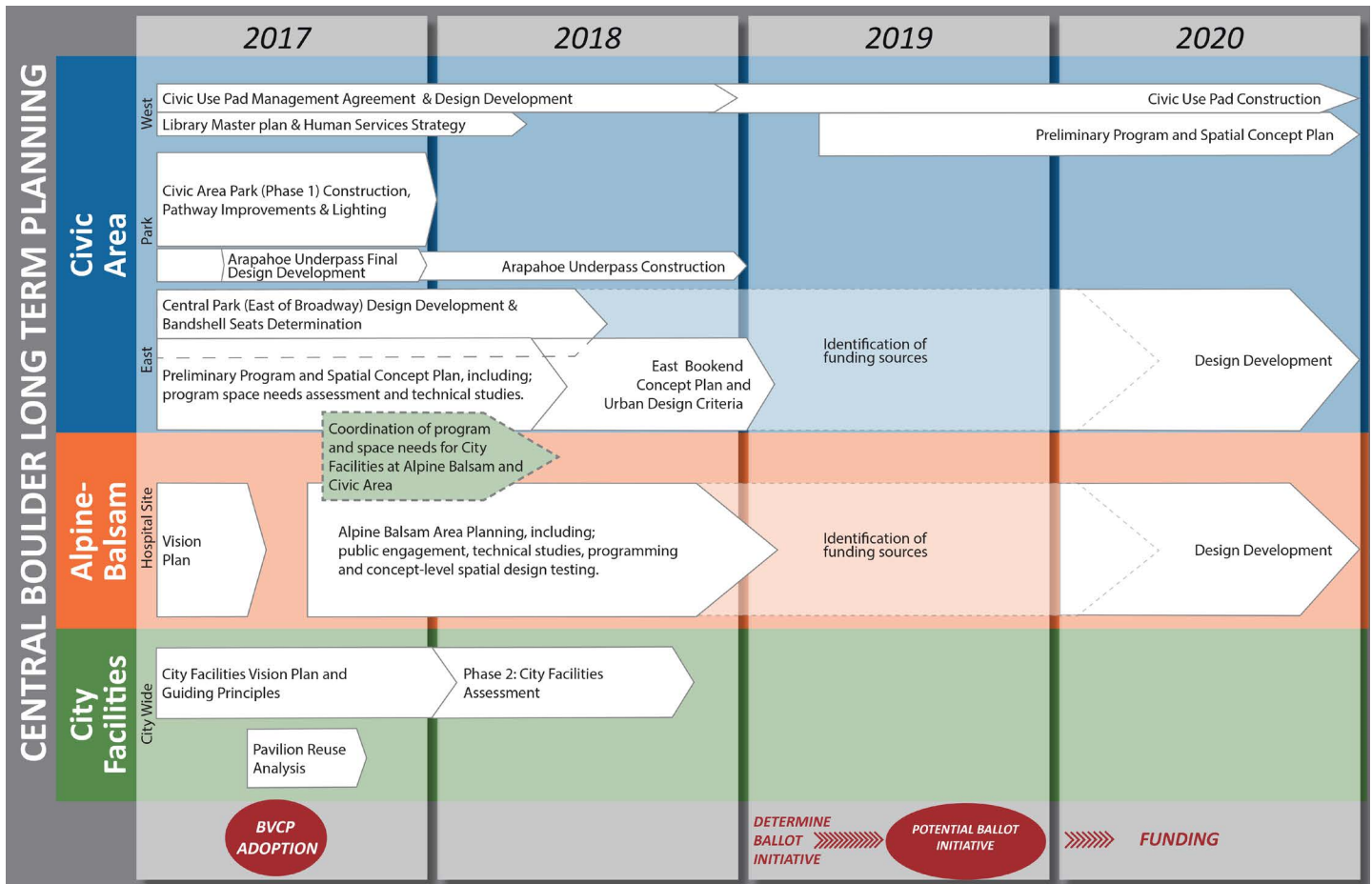
As part of these planning efforts, the city will develop cost estimates and identify financing tools and investment strategies to pay for capital improvements in the Civic Area, connections to the CU Hotel/Conference Center, and development of the Alpine-Balsam site. This may lead to public financing through voter-approved bonds or sales tax along with public-private partnerships. If funding is identified, then design and construction could begin in 2020 or later. See the high-level timeline graphic below for an estimated schedule. This graphic reflects the current thinking and is subject to change as funding opportunities and/or project conditions change.



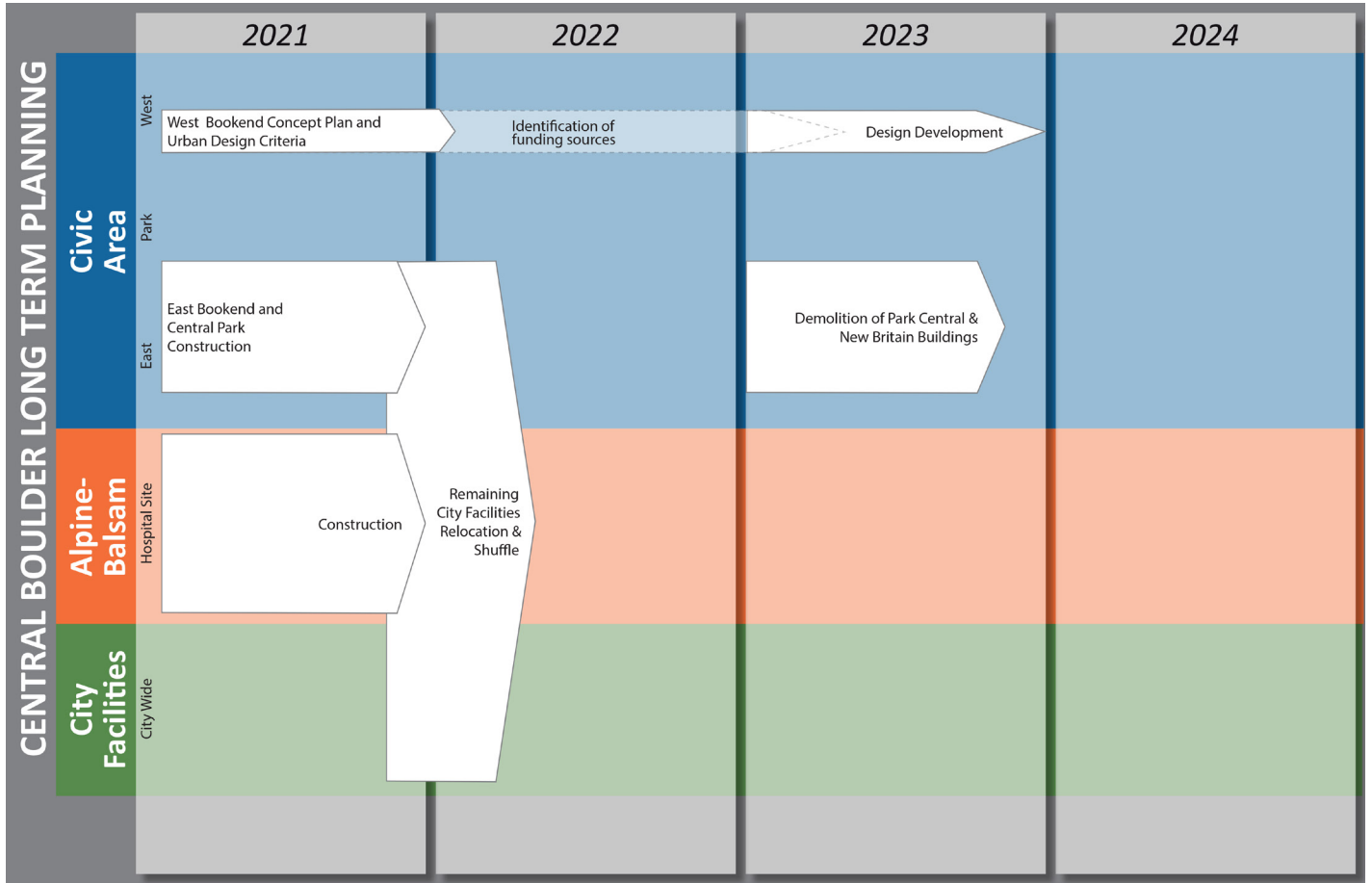
Children walking up Broadway



University Underpass



CENTRAL BOULDER



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3C | SPECIAL HIGHLIGHT: PUBLIC ART

PUBLIC ART IN CONJUNCTION WITH CAPITAL IMPROVEMENT PROJECTS

The Community Cultural Plan (adopted by City Council on November 17, 2015) describes a community priority for culture: Focus on the expression of culture and creativity in the public realm through public art, the urban landscape, culture in the neighborhoods and serendipitous encounters with the arts. This is further supported in the Community Cultural Plan through the action strategy to “reinvent our public art program.”

Commissioning of public art projects has historically occurred throughout Boulder at the discretion of individual departments, resulting in a miscellaneous collection and inadequate maintenance. The city has adopted a new policy to commission public art in a manner consistent with the Community Cultural Plan. This includes integration of public art with capital improvements in public spaces. In addition to this commissioning process, a sustainable source of funding has been proposed for future implementation. New capital projects that meet certain criteria would either include new public art or contribute funding to ensure new art in an appropriate location. If approved, this would apply a rule of assigning 1% of total construction costs in eligible projects.

Components of the draft policy include:

- A percent-for-art rule as part of eligible capital projects. 1% of total construction costs of new capital and capital enhancement projects, to be used for the acquisition of public art. This would also include an additional 0.25% to be used for maintenance funding for the city’s public art assets.
- Proposed Eligibility Criteria:
 - Capital projects for new facilities or significant enhancements of existing facilities. (Does not include maintenance, repair, upgrades, etc.)
 - Capital projects with a total project budget of \$50,000 or greater.
 - Capital projects that have a publicly accessible component.
 - Capital projects that are sourced from funds which permit the inclusion of public art.
- A framework for implementation.
- Procedures for calculation and administration of funds.

With the adoption of the new Policy on Acquisition and Maintenance of Public Art by the City, adopted December 1, 2016, oversight and coordination of the City of Boulder Public Art Program and all works of public art acquired by the City of Boulder are the responsibility of the Library & Arts Department Office of Arts and Culture.

The Office of Arts and Culture will additionally serve as the leading expert commissioning and overseeing the maintenance of the public art collection. The Boulder Arts Commission will serve as an advisory, engagement group in support of the execution of this policy.

PUBLIC ART

PROJECTS UNDERWAY

The following locations used the “Policy on Acquisition and Maintenance of Public Art” and have public art projects included in the 2017 Public Art Implementation Plan. Projects are anticipated for completion 2018-2019:

Civic Area Public Art Project

- In the Civic Area Master Plan, this site is acknowledged as a cultural destination, and this public art commission will specifically reflect priorities contained within the plan.
- Funding: Public art contract of roughly \$325,000 funded through the Community Culture and Safety (CCS) Tax and General Fund allocation. This budget creates a civic-scale public art opportunity that will further compliment current improvements made to the park.
- Anticipated Timeline: Selection Process Q2-Q3 2017; Design Q3 2017 – Q2 2018; Fabrication Q3 2018 – Q2 2019; Installation Q3-4 2019.
- Location: Final location will be determined by the artist, public art selection panel and the technical review committee. Possible sites include the 11th Street Spine and within park space north or south of Boulder Creek between 10th and 11th Streets.



Image: Boulder Civic Area rendering

Arapahoe and 13th Underpass

- The City of Boulder has initiated planning and design for the Boulder Creek & Arapahoe Underpass (Arapahoe & 13th) project to provide a safer, more accessible and less flood prone underpass along the Boulder Creek Path at Arapahoe Avenue, near 13th Street. Inclusion of art will further support project goals and ultimately the user experience.
- Funding: Public art contract of roughly \$42,000 funded through an estimated 1% of the Transportation project budget, this project is a complimentary component of the Arapahoe Underpass reconstruction project, funded in part through the CCS Tax.
- Anticipated Timeline: Selection Process Q2-Q3 2017; Design Q3-Q4; Fabrication Q1 – Q2 2018; Installation Q3-4 2018.
- Location: Final location will be determined by the artist, public art selection panel and the technical review committee. Possible sites include a primary focus on underpass retaining wall with additional opportunities at the confluence of trails just south of the underpass and/or adjacent to the on-street pedestrian crossing.

PUBLIC ART



Arapahoe Existing Site Conditions



Karen Yank's "Currents" underpass example

North Broadway/NoBo Art District

- North Broadway serves as a gateway to Boulder and the NoBo Art District from Hwy 36. This public art opportunity is an additional aspect of the formalization of NoBo as a Creative District and utilization of creative placemaking through the reconstruction of North Broadway.
- Funding: Public art contract of roughly \$155,000 funded through an estimated 1% of the Transportation North Broadway Reconstruction Project and a public art fund contribution through the 2014 CCS Tax.
- Anticipated Timeline: Selection Process Q4 2017 – Q1 2018; Design Q2-Q4 2018; Fabrication Q1 – Q3 2019; Installation Q3-4 2019.
- Location: Final location will be determined by the artist, public art selection panel and the technical review committee. Possible sites include primary intersections and acknowledge sites with footprint capacity for artwork.

University Hill

University Hill is a location with interest from the CU population and University Hill Neighborhood, with overall support and interest from the community. This public art project will be temporary in nature, responding to the characteristics of the site.



- Funding: Public art project contract of roughly \$85,000 funded through the 2014 CCS Tax.
- Anticipated Timeline: Selection Process Q3-Q4 2017; Design Q1-Q4 2018; Fabrication Q2 2018 – Q2 2019; Installation Q4 2018 – Q4 2019.
- Location: Final location will be determined by the artist, public art selection panel and the technical review committee. Possible sites will be identified throughout 11th and 13th Streets from Pleasant St. to College Ave,

Image: Mapping Stories as reference photo for temporary projects through Experiments in Public Art.

PUBLIC ART

Foothills Underpass (Urban Design)

- The City of Boulder has initiated planning and design a new underpass at Foothills Underpass just south of Colorado Avenue to provide a safer, more accessible and uninterrupted traffic flow. Inclusion of art will further support project goals and ultimately the user experience.
- Funding: Public art contract of roughly \$30,000 funded through an estimated 1% of the Transportation project budget, this project is a complimentary component of the Foothills Underpass project budget.
- Anticipated Timeline: This project will run in tandem with 30th and Colorado Underpass; Selection Process Q3-Q4 2017; Design Q1-Q3 2018; Fabrication Q4 2018 – Q1 2019; Installation Q2-3 2019.
- Location: Final location will be determined by the artist, public art selection panel and the technical review committee. Possible sites include a primary focus on underpass retaining wall. As part of a federally-funded transportation project, this opportunity will follow the urban design framework consistent with federal funding reimbursements.

30th and Colorado (Urban Design)

- The City of Boulder has initiated planning and design a new underpass at 30th Street and Colorado Avenue to provide a safer, more accessible and uninterrupted traffic flow. Inclusion of art will further support project goals and ultimately the user experience.
- Funding: Public art contract of roughly \$70,000 funded through an estimated 1% of the Transportation project budget, this project is a complimentary component of the Foothills Underpass project budget.
- Anticipated Timeline: This project will run in tandem with Foothills Underpass; Selection Process Q3-Q4 2017; Design Q1-Q3 2018; Fabrication Q4 2018 – Q1 2019; Installation Q2-3 2019.
- Location: Final location will be determined by the artist, public art selection panel and the technical review committee. Possible sites include a primary focus on underpass retaining wall. As part of a federally-funded transportation project, this opportunity will follow the urban design framework consistent with federal funding reimbursements.

*Additional public art projects not in conjunction with Capital Improvement Projects are included in the 2017 Public Art Implementation Plan.



4 | DEPARTMENT PROJECTS

2018 DEPARTMENT PROJECTS

Community Vitality

Facilities and Asset Management

Fire-Rescue

Information Technology

Library and Arts

Open Space and Mountain Parks

Parks and Recreation

Police

Transportation

Utilities

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COMMUNITY VITALITY

OVERVIEW OF DEPARTMENT MISSIONS / GOALS

The department of Community Vitality was created in late 2015, integrating the Downtown and University Hill Management Division/Parking Services Division with the city's economic vitality work group. Community Vitality focuses on three service areas: Access and Parking Services, District Management (Downtown, University Hill and Boulder Junction) and citywide economic vitality. The department focuses on place-based management with integration of the city's core sustainability goals – economic, social and environmental.

- **Access and Parking Services** support the community's multi-modal strategy – bikes, transit, pedestrians and vehicles. The department manages public parking on and off-street in the three parking districts (Downtown, University Hill and Boulder Junction) and in collaboration with travel demand management programs (Eco Pass, car and bike share) to create a full menu of access options for employees, customers and visitors. Access and Parking Services also encompasses citywide parking enforcement and the management of the 11 Neighborhood Parking Program zones.
- **District Management** focuses on management and permitting of public spaces, such as the Pearl Street Mall and city-wide special events as well as integration with other city departments (e.g., Parks and Recreation) and business associations (e.g., Downtown Business Improvement District, Downtown Boulder Partnership, Hill Boulder) to ensure safe, welcoming and vibrant public gathering areas and events.
- **Economic Vitality** supports businesses city-wide, focusing on primary employer retention, business services, and promoting innovation in partnership with local economic and business organizations.

FUNDING OVERVIEW

Community Vitality manages programs in five funds:

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

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

Based on the CAGID Parking Structure Asset Management Plan completed in 2017, Community Vitality's focus for capital projects in 2018 includes stairwell replacements in two garages and increasing the annual capital maintenance budget to reflect the needs identified in the 2017 Asset Management Plan. Downtown/Pearl Street Mall amenity repairs and replacement include ongoing allocations for replacement of elements such as the pop jet fountain and refurbishment of the 1400 block map.

COMMUNITY VITALITY

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*			
Project	2017	2018	2019
CAGID: Trinity Commons (2200 Broadway) Construct mixed use Garage	Completion		
CAGID: Five garages Replace parking access and gate control system	Completion		
Hill Event Street (CCS project)	Completion		
CAGID: 15 th & Pearl Repair & Refurbish elevator	Completion		
CAGID: Five Garages Install EV charging stations	Completion		
CAGID: Five garages Major maintenance fund	Ongoing	Ongoing	Ongoing
Downtown/Pearl Street Mall Improvements/Replacements	15 th Street Kiosk complete	Ongoing	Ongoing
CAGID: 15 th & Pearl and 11 th & Spruce garages Stairwell replacement	Design	Construction	

*This table does not include all the projects in the CIP; see fund summary and projects sheets for the full list of projects.

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

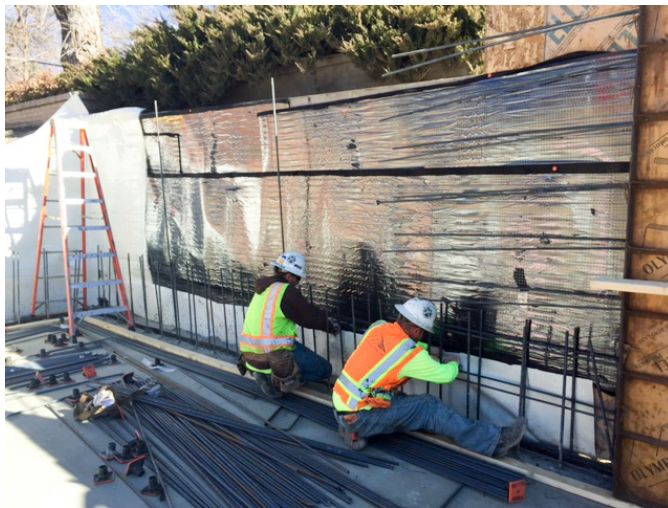
BOARD ACTION

The Downtown Management Commission (DMC) unanimously approved the following resolution in support of the Community Vitality/Parking CIP at its June 6, 2017 meeting:

* Motion to approve the 2018 recommended expenditures from the Downtown Commercial District Fund.



Pearl Street Mall Kiosk



Trinity Commons public-private partnership

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
COMMUNITY VITALITY	\$ 3,650,000	\$ 1,775,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000
CIP-CAPITAL MAINTENANCE	\$ 3,650,000	\$ 1,775,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000	\$ 375,000
Downtown Parking Garage Major Maint	1,500,000	250,000	250,000	250,000	250,000	250,000	250,000
Downtown Pearl St Mall Amenity Repl	750,000	125,000	125,000	125,000	125,000	125,000	125,000
Garage Stair Replacement 1500/1100	1,400,000	1,400,000	-	-	-	-	-

COMMUNITY VITALITY

Project Name: Downtown Pearl St Mall Amenity Repl

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	CENTRAL BOULDER
Department:	DUHMD	BVCP Area:	AREA I
Project Number:	620CAGFMAL	CEAP Status:	n/a
CEAP Required:	No		

Project Description

Until 2012, there was no capital replacement or future improvements funding identified for the Downtown/Pearl St Mall streetscapes. The Downtown/Pearl St Mall Amenities plan consists of two components: 1) capital replacement budget for existing amenities on the Pearl St Mall (pop jet fountain, shade structure, kiosks, play areas, etc.) and existing streetscape elements within the downtown (benches, trash receptacles, bike racks, etc.) and 2) replacement of future streetscape improvements in areas outside the Pearl St Mall in downtown Boulder. Replacement funds are designated as amenities age, and need replacement or repairs. 2018 projects will include the retrofit of pedestrian light fixtures to comply with outdoor lighting ordinance; redesign of the 1400 block map area and potential cost sharing with FAM on the mall restroom refurbishment. Also, Community Vitality will incorporate a replacement schedule and allocation of the improvements from West Pearl streetscape project which were completed with the 2A funding, and continued reserve funding for Pearl St Mall and Downtown amenity replacement.

Project Phasing

Community Vitality appropriates and transfers \$125,000 annually from the Downtown Commercial District fund to a Facilities Repair & Replacement fund to accumulate funds for amenities replacement. In collaboration with Parks, projects completed in 2017 include: Bollard refurbishment and the construction of the 15th and Pearl mall and continued reserve funding for Pearl St Mall amenity replacement.

Public Process

A Downtown Improvement Task Force, including staff from Parks, Planning, Transportation, Community Vitality and Facilities Asset Mg prioritized and identified improvements. Also included were representatives from downtown boards and organizations. The focus of the task force was; 1) work with Parks, GIS and FAM to create an inventory of existing amenity and streetscape improvements on the Pearl St Mall/Downtown 2) Recommendation for future streetscape and infrastructure improvements.

DET/Impact Fees

n/a

Interdepartmental and Interagency Collaboration

Community Vitality works with FAM, Transportation and Parks & Rec to coordinate the downtown capital amenities replacement plan.

Change From Past CIP

n/a

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Downtown Commercial District	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000
							Funding to Completion \$0	Future Unfunded \$0

Total Funding Plan: \$875,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	-0-	Funding Source for O&M:
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Additional Annual O&M Description:

Operating costs are covered in the Downtown Commercial and P&R Funds

COMMUNITY VITALITY

Project Name: Downtown Parking Garage Major Maint

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	CENTRAL BOULDER
Department:	DUHMD	BVCP Area:	AREA I
Project Number:	620CAGMain	CEAP Status:	n/a
CEAP Required:	No		

Project Description

Funding for the 4 year, 4.5 million dollar major capital renovation and repair project funding ended in 2011. Beginning 2012, \$250,000 per year was allocated for ongoing repairs/renovations to maintain the garages in good standing. In 2016, a consulting firm was hired to develop a Parking Structure Asset Management Plan. As part of a result of that plan, major maintenance projects include, but are not limited to: epoxy coating of exposed garage decks (on a 6-8 year replacement schedule, one structure per year), painting (interior and exterior), major elevator repairs, and concrete deterioration repairs. Many of these procedures require significant funding and are part of a rotating maintenance schedule. The intent is to maintain the garages regularly to avoid or delay significant capital outlay resulting from deferred maintenance.

The Parking Structure Asset Assessment Plan will show a 10-year look ahead in the 2019 CIP for what is needed to facilitate proper upkeep on these resources.

Project Phasing

This project is for an ongoing funding program. All \$250,000 is spent on rotating projects at the 5 downtown garages each year. Projects completed in 2017: significant leaks in and around the southwest elevator at 1100 Spruce garage to mitigate damage to offices and rooms below, along with modernization and maintenance of both elevators; joint sealant was removed and replaced on levels 4 & 5. Drive lane and ramp concrete repairs occurred at 1100 Walnut garage, Randolph. As well, ramp and concrete repairs to the 1400 Walnut garage, RTD.

Projects planned for 2018 include:

Painting ceilings, columns and walls at 1000 Walnut garage, St Julien. Stair repairs, including sealant of cracks, spalling and landing repairs; replacement of missing anchor bolts and rust/corrosion treatment, at 1400 Walnut garage, RTD. Addition of handrails at the southeast stairwell of 1100 Spruce structure, along with wall and surface protective coatings and repairs; removal and replacement of cast drain pipe and formation of "cricket" to facilitate flow of drainage to drain, at the Spruce Street Garage.

Public Process

No public process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

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

Change From Past CIP

n/a

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Downtown Commercial District	\$0	\$353,551	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
							Funding to Completion \$0	Future Unfunded \$0

Total Funding Plan: \$1,853,551

Additional Annual Operating and Maintenance

Additional Annual O&M: n/a

Funding Source for O&M:

Additional Annual O&M Description:

Operating costs are covered in the Downtown Commercial District Fund

COMMUNITY VITALITY

Project Name: Garage Stair Replacement 1500/1100

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: DUHMD

Project Number: 620CAstair

CEAP Required: No

Subcommunity: CENTRAL BOULDER

BVCP Area: AREA I

CEAP Status: n/a

Project Description

As the downtown garages age, more extensive repair and replacement major maintenance is often required to keep the structures in good working order. The 1500 Pearl Street and 1100 Spruce Street garages, require a complete replacement of all 7 staircases. The existing staircases are in extreme disrepair causing issues and failures to adjacent areas of the structures. These improvements to these structures are in alignment with the Parking Structure Asset Management Plan.

Project Phasing

Planning, Design and construction in 2018. Planning and Design: \$100,000

Construction: \$1,300,000

Public Process

No Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

There is no collaboration with other departments on the garage stair replacement.

Change From Past CIP

n/a

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Downtown Commercial District	\$0	\$0	\$1,400,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,400,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

Operating costs are covered in the Downtown Commercial District Fund

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FACILITIES AND ASSET MANAGEMENT

OVERVIEW OF DEPARTMENT MISSIONS / GOALS

The Facilities and Asset Management Division provides leadership and expertise to promote the efficient and effective use of resources and space, and coordinate or directly manage the maintenance and replacement of city facilities and equipment.

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, 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, 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. In 2016, an update to the impact fee study was completed and is available in the [Sep 20, 2016 Capital Facility Development Impact Fee Study](#).

- **Facility Renovation and Replacement Fund:** The Facility Renovation and Replacement Fund (FR&R) accounts for major maintenance (projects >\$3,000), renovation and building system replacement projects for FAM maintained buildings, structures and property. The majority of FR&R funding comes from the General Fund (GF) and transfers from the Parks and Recreation 0.25 sales tax. The FR&R fund also receives funding from restricted and enterprise funds for specific departmental projects including environmental remediation work. The FR&R fund is an internal service fund managed by FAM and amounts to approximately \$1,600,000 annually.

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

The core of FAM's operation is maintaining city facilities so that residents and employees have a safe and pleasant experience in the various facilities. As facilities are repaired and systems are replaced, FAM also looks to provide greater energy efficiency and equipment controls so that systems can be monitored 24/7. Focus areas for 2018 include:

Asset Management: Major maintenance and repairs of infrastructure to multiple facilities across the city verified by formal facility assessment performed in 2015 and 2016. The assessments of 20 city facilities included fire stations, libraries, fleet services, major administrative areas, and recreation centers. Approximately \$10.6 million in backlogged maintenance was identified in these 20 facilities and of that amount, \$2.6 million was determined to be critical backlog and had been programmed for 2017 and is continued in the 2018 to 2023 CIP.

Energy Efficiency: In 2017, FAM is evaluating like-for-like replacements of major systems in light of the city's climate commitment to have 80 percent reduction of greenhouse gas emissions (GHG) from city facilities and operations. At the end of 2015, the city had reduced GHG emissions from city facilities by 42 percent from 2008 levels. At the end of 2016, reductions for city facilities continued with a 46 percent reduction from 2008 levels. In

FACILITIES AND ASSET MANAGEMENT

Capital Development funding, further analysis and space planning is programmed for the Alpine-Balsam campus area with goals towards creating energy efficient projects to continue the reduction of GHG emissions produced by city facilities and operations.

Civic Area: Renovations to one area of the Municipal Building are proposed to consolidate services provided by the City Manager's Office and to also create a more welcoming environment.

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*			
Project	2017	2018	2019
Upgrade Radio Infrastructure	Design	If funded, completion	
Renovate Brenton Building	Construction Start	Completion	
Upgrade EV Chargers	Completion		
Replace Outdoor Lighting for Compliance	Design	Completion	
	Construction		
Analyze City Facilities	Planning	Design	

**This table does not include all the projects in the CIP, see fund summary and projects sheets for the full list of projects.*

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

BOARD ACTION

As an internal service, Facilities and Asset Management does not have an advisory board.

FACILITIES AND ASSET MANAGEMENT

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
PW/FACILITIES AND ASSET MNGMT	\$10,286,000	\$ 2,102,000	\$ 2,111,000	\$ 1,705,000	\$ 1,624,000	\$ 1,662,000	\$ 1,082,000
CIP-CAPITAL ENHANCEMENT	\$ 1,560,000	\$ 560,000	\$ -	\$ 700,000	\$ -	\$ 300,000	\$ -
Municipal Building Renovations - SW	560,000	560,000	-	-	-	-	-
Tantra Shop Renovation	300,000	-	-	-	-	300,000	-
West Senior Center Maj Maint & Reha	700,000	-	-	700,000	-	-	-
CIP-CAPITAL MAINTENANCE	\$ 7,846,000	\$ 1,312,000	\$ 1,981,000	\$ 875,000	\$ 1,494,000	\$ 1,232,000	\$ 952,000
Aquatics Facility Repairs	976,000	-	723,000	-	253,000	-	-
Essential Facility Maintenance Proj	2,600,000	700,000	-	200,000	400,000	500,000	800,000
Fire Stations Major Maintenance	871,000	132,000	138,000	145,000	152,000	152,000	152,000
Fleet - System Repairs/Replacements	460,000	80,000	220,000	80,000	-	80,000	-
Martin Park Shelter Major Maint	169,000	-	-	-	169,000	-	-
Misc Facility Maintenance Projects	2,150,000	400,000	400,000	450,000	400,000	500,000	-
N Boulder Park Shelter Repair	120,000	-	-	-	120,000	-	-
Recreation Facility Repairs	500,000	-	500,000	-	-	-	-
CIP-CAPITAL PLANNING STUDIES	\$ 880,000	\$ 230,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000
City Facilities Analysis/Consolidat	100,000	100,000	-	-	-	-	-
Facility Assessments	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Misc Space Needs and Analysis	480,000	80,000	80,000	80,000	80,000	80,000	80,000

FACILITIES AND ASSET MANAGEMENT

Project Name: Aquatics Facility Repairs

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	PW/FACILITIES & ASSET MNGMT	BVCP Area:	AREA I
Project Number:	3158885715	CEAP Required:	No
CEAP Required:	No	CEAP Status:	

Project Description

As part of recommendations of the recreation master plan and the recently completed Aquatics Facility Study the Parks and Recreation (P&R) department has identified deferred maintenance needs within P&R existing facilities. P&R operates 11 pools within the city including indoor and outdoor leisure pools, lap pools and hot tubs. As part of the Aquatics Facility Study ongoing maintenance and repairs to recreation facilities have been prioritized starting with the three indoor facilities. Pools are an integral component in providing health and wellness programs as well as generating revenues for the city.

Project Phasing

Planning: \$90,000 budgeted in 2016
 Construction: \$1,350,000.00 budgeted over 3 years

Public Process

Presented to the Parks & Recreation Advisory Board

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

Projects have been scoped by the Parks and Recreation Department's approved Aquatics Study. See Aquatics Facility Repairs project.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$361,800	\$0	\$0	\$723,000	\$0	\$253,000	\$0	\$0

Total Funding Plan: \$1,337,800

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:
Additional Annual O&M Description:		

FACILITIES AND ASSET MANAGEMENT

Project Name: City Facilities Analysis/Consolidat

Project at a Glance

Project Type:	CIP-CAPITAL PLANNING STUDIES		
Department:	PW/FACILITIES & ASSET MNGMT	Subcommunity:	SYSTEM-WIDE
Project Number:	3158886817	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	

Project Description

With the purchase of the Alpine-Balsam site and redevelopment planned in the Civic Area the city has an opportunity to consolidate city services now spread out across several different buildings into two distinct campuses. This consolidation will greatly improve the customer experience, increase efficiency in operations both for staff working in these buildings and those maintaining them, as well as support the city's energy goals and address concerns around resiliency. The first phase of assessment of City Facilities is being completed which establishes a vision for city buildings and workspaces and creates guiding principles to inform design moving forward. The first phase of the City Facilities Assessment resulted in a distribution of many departments between two sites; Alpine-Balsam being a more customer service oriented campus and the Civic Area addressing community engagement. The next phase of work includes detailed programming of space in these locations and the development of Design Guidelines that will inform and guide City Facilities building projects across the city in both new and existing buildings.

Project Phasing

Analysis of city facilities in 2016 - \$100,000 completed in Q2 2017.

City Facilities Design Guidelines: \$100,000 in 2018

Programming phase of City Facilities: \$120,000 in 2018 (Alpine-Balsam site and Civic Area)

Alpine-Balsam site - \$60,000 in 2018

Civic Area east bookend - \$60,000 in 2018

Public Process

Public engagement is planned in the detailed programming phase of the project to inform the development of public use spaces. The community will be asked for input on customer experience, access, engagement, services offered, etc. Updates will be provided to the community showing progress on programming and concepts being developed for new city buildings relative to public input.

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

The Facilities and Asset Management group (FAM) is collaborating with the Planning department on the development of the BCH site as well as within the Civic Area. Broad interdepartmental collaboration will be needed to inform development of future buildings and all departments in the city will be engaged in the planning process. Technical development of buildings at each site will require additional collaboration with Energy Futures, Transportation, Planning and Development Services, Utilities, Community Vitality, Parks & Recreation, Library & Arts, and others who contribute to aspects of building and can inform the planning.

Change From Past CIP

None

Collaboration with the County will also continue to seek opportunities to work together in our buildings or through good adjacencies as they are also in a process of analysis and potential redevelopment of many of their County buildings. Other outside agencies, such as CU and the Boulder Convention and Visitors Bureau may be engaged in the planning of public spaces.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$5,000	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0

Total Funding Plan: \$205,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

FACILITIES AND ASSET MANAGEMENT

Project Name: Facility Assessments

Project at a Glance

Project Type:	CIP-CAPITAL PLANNING STUDIES		
Department:	PW/FACILITIES & ASSET MNGMT	Subcommunity:	SYSTEM-WIDE
Project Number:	3158885115	BVCP Area:	AREA I
CEAP Required:	No	CEAP Status:	

Project Description

This project funds the study and analysis of facility assets. Visual inspections and sampling of materials are performed in city facilities to have a hazard inventory of any asbestos, lead based paint and other indoor air quality concerns. Code and safety deficiencies in existing facilities are also identified. This type of inventory provides awareness to building occupants, maintenance staff, construction personnel and emergency responders and identifies remediation projects, as needed. This is a multi-year program to complete the inventory of the 135 facilities managed by Facilities & Asset Management (FAM).

Project Phasing

Total project cost is \$300,000.
\$50,000 budgeted per year for the span of 6 years.

Public Process

None

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

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

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$148,693	\$51,307	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000

Total Funding Plan: \$500,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:
Additional Annual O&M Description:		

FACILITIES AND ASSET MANAGEMENT

Project Name: Fire Stations Major Maintenance

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	PW/FACILITIES & ASSET MNGMT	Subcommunity:	SYSTEM-WIDE
Project Number:	3158885515	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	

Project Description

The 24/7 occupancy of a fire station and its status as an essential facility requires a higher level of maintenance. This annual CIP project will be distributed among the eight Boulder Fire Stations to maintain finishes to industry standards, and upgrade kitchen, dining and living areas. Work on Fire Stations 3 and 4 will be limited due to potential future replacements.

Project Phasing

Projects are identified, designed, and completed each year with the Fire-Rescue Department within the approved annual funding.

Public Process

Building permits will be submitted for as required

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

Projects have been coordinated with the Fire-Rescue Department

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$48,331	\$144,628	\$132,000	\$138,000	\$145,000	\$152,000	\$152,000	\$152,000

Total Funding Plan: \$1,063,959

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:	
Additional Annual O&M Description:			

FACILITIES AND ASSET MANAGEMENT

Project Name: Fleet - System Repairs/Replacements

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE
Department: PW/FACILITIES & ASSET MNGMT
Project Number: 3151154817
CEAP Required: No

Subcommunity: CENTRAL BOULDER
BVCP Area: AREA I
CEAP Status:

Project Description

In the recent past, Fleet Services has made significant repairs and investments to the facility and equipment to include Energy Performance Contract upgrades in 2012 and 2013 for lighting upgrades, heat recovery, boiler replacement and controls, and a 46 kilowatt solar pV system. In 2014 and 2015, a high capacity lift was added, the inoperable wheel alignment rack was replaced and new tooling for mechanics purchased. In 2016, fleet software upgrades are being made along with leak detection enhancements to the fuel storage tanks. The Projects to be accomplished from 2017 to 2022 are shown in the project phasing section. Project will be funded by Fleet FR&R funds.

Project Phasing

The 2016 Facility Assessments included a whole building inspection of the Fleet Services building at the Municipal Services Center. The facility was constructed in 1989 and is in need of system replacements that are beyond their useful service life. Specifically by year:

- 2017 - Replace Alternative Fuel Tank
- 2018 - Replace 16 roll-up door motors - \$80,000
- 2019 - Replace fire alarm and detection systems - \$220,000
- 2020 - Replace mechanical room heating and ventilation system - \$80,000
- 2022 - Replace vehicle bay infrared heaters in 2 bays - \$80,000

These projects are funded by the Fleet Services FR&R fund, which is generated as an internal service fund by work and services performed by the Fleet staff.

Public Process

None

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

The City's internal Fleet Services Advisory Board made up of representatives from various City departments provide guidance and approval of the fleet upgrades planned.

Change From Past CIP

Updated to reflect replacement of alternative fuel tank

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$0	\$80,000	\$80,000	\$220,000	\$80,000	\$0	\$80,000	\$0

Total Funding Plan: \$540,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0
Additional Annual O&M Description:

Funding Source for O&M:

FACILITIES AND ASSET MANAGEMENT

Project Name: Essential Facility Maintenance

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE
Department: PW/FACILITIES & ASSET MNGMT
Project Number: 3158886717
CEAP Required: No

Subcommunity: SYSTEM-WIDE
BVCP Area: AREA I
CEAP Status:

Project Description

FAM contracted in 2016 to prepare a Facilities Strategic Plan for 22 essential city facilities (Fire stations, Public Safety Building, Municipal Buildings, Recreation Centers, and Libraries). All equipment in the facilities were inspected, documented and imported into an Asset Management software. FAM developed building and system priorities. For example, a recreation center is maintained to a higher standard than a maintenance shop, and roofing systems are given a higher priority than interior finishes. The software program takes that information and produces a prioritized 10 year work plan for the 22 facilities to work down backlogged items and replace building components on schedule.

Project Phasing

Construction: \$300,000 budgeted in 2017 for the two projects identified - Municipal Building air cooled water chiller and air handling unit replacement and Fire Station #7 roof replacement.
 Design and Construction: \$1,000,000 budgeted in 2018 to continue working down the maintenance backlog. FAM will provide a more detailed list of projects in the 2018 budget cycle.

Public Process

None

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

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

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$0	\$300,000	\$700,000	\$0	\$200,000	\$400,000	\$500,000	\$800,000

Total Funding Plan: \$2,900,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0
Additional Annual O&M Description:

Funding Source for O&M:

FACILITIES AND ASSET MANAGEMENT

Project Name: Martin Park Shelter Major Maint

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SOUTH BOULDER
Department:	PW/FACILITIES & ASSET MNGMT	BVCP Area:	AREA I
Project Number:	3150340215	CEAP Required:	No
CEAP Required:	No	CEAP Status:	

Project Description

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 flatework. FR&R funding was not available with 2013/2014 CIS project. This project upgrades the plumbing 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.

Project Phasing

Planning: \$16,000 budgeted in 2017
 Construction: \$153,000 budgeted in 2017

Public Process

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

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

This project will be coordinated with the Parks and Recreation Department.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$0	\$0	\$0	\$0	\$0	\$169,000	\$0	\$0

Total Funding Plan: \$169,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:
Additional Annual O&M Description:		

FACILITIES AND ASSET MANAGEMENT

Project Name: Misc Facility Maintenance Projects

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PW/FACILITIES & ASSET MNGMT

Project Number: 3155904615

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status:

Project Description

Replacements funded with this project include HVAC systems, boilers, parking lot repairs, and various other building systems.

Project Phasing

This is a multi-year project with independent projects completed each year at various facilities. Projects are designed and executed separately annually.

Public Process

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.

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

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

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$189,423	\$384,277	\$400,000	\$400,000	\$450,000	\$400,000	\$500,000	\$0

Total Funding Plan: \$2,723,700

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

Funding Source for O&M:

FACILITIES AND ASSET MANAGEMENT

Project Name: Misc Space Needs and Analysis

Project at a Glance

Project Type: CIP-CAPITAL PLANNING STUDIES

Department: PW/FACILITIES & ASSET MNGMT

Project Number: 3158883614

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: AREA I

CEAP Status:

Project Description

To support facility space needs analysis of General Fund departments with master plan updates, for additional services and staff growth or for an unanticipated relocation.

Project Phasing

Total project cost: \$480,000.

\$80,000 budgeted each year over the span of 6 years

Public Process

None

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

Facilities & Asset Management (FAM) will work closely with each department to identify space needs associated with facility needs identified in their master plan updates.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$6,376	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000

Total Funding Plan: \$566,376

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

Funding Source for O&M:

FACILITIES AND ASSET MANAGEMENT

Project Name: Municipal Building Renovations - SW

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT
Department: PW/FACILITIES & ASSET MNGMT
Project Number: 3150012018
CEAP Required:
Subcommunity: SYSTEM-WIDE
BVCP Area: SYSTEM-WIDE
CEAP Status:

Project Description

The renovation of the Brenton Building at 1136 Alpine will provide a new office location for the Finance department in early 2018 which will result in vacated office space in the municipal building. The City Manager's Office currently has staff spread out in different buildings and will need to reconfigure personnel to staff a reception desk in the Municipal building once Finance moves out as they are currently serving the reception function. This project will renovate the first floor south wing of the municipal building to accommodate growth in the City Manager's Office and provide new reception space and lobby redesign.

Project Phasing

Design work would begin in 2018

Public Process

Project design will be reviewed during the normal permitting process

DET/Impact Fees

Growth percentage of project to be determined with Design

Interdepartmental and Interagency Collaboration

This project will be coordinated with the City Manager Office, City Attorney Office, and other key stakeholders and users of the Municipal Building.

Change From Past CIP

New Project

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Capital Development	\$0	\$0	\$360,000	\$0	\$0	\$0	\$0	\$0
Facility Renovation & Replace	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$560,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0
Additional Annual O&M Description:
Funding Source for O&M:

FACILITIES AND ASSET MANAGEMENT

Project Name: N Boulder Park Shelter Repair

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PW/FACILITIES & ASSET MNGMT

Project Number: 3150330215

CEAP Required: No

Subcommunity: CENTRAL BOULDER

BVCP Area: AREA I

CEAP Status:

Project Description

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 was not available to time with CIS project. This project upgrades the plumbing systems and fixtures and renews interior and exterior surface finishes of the facility built in 1969. Minor concrete work totaling \$19,000 was last done in 2007. Electrical code upgrades will also be accomplished as required with major renovation projects.

Project Phasing

Planning: \$12,000 budgeted in 2017

Construction: \$108,000 budgeted in 2017

Public Process

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

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

This project will be coordinated with the Parks and Recreation Department.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$0	\$0	\$0	\$0	\$0	\$120,000	\$0	\$0

Total Funding Plan: \$120,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No additional operating costs are anticipated

Funding Source for O&M:

FACILITIES AND ASSET MANAGEMENT

Project Name: Recreation Facility Repairs

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	PW/FACILITIES & ASSET MNGMT	Subcommunity:	SYSTEM-WIDE
Project Number:	3158885615	BVCP Area:	AREA I
CEAP Required:	No	CEAP Status:	

Project Description

The recreation 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 city will be providing repairs, renovations and upgrades to recreation centers. In 2016, the P&R department completed a strategic plan for all recreation centers that illustrates implementation priority for critical projects. This project will fund the initial implementation projects outlined within the plan.

Project Phasing

Planning: \$50,000 budgeted in 2017
 Construction: \$450,000 budgeted in 2017

Public Process

None

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

This project will be coordinated with the Parks and Recreation Department.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$0	\$500,000	\$0	\$500,000	\$0	\$0	\$0	\$0

Total Funding Plan: \$1,000,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:	
Additional Annual O&M Description:			

FACILITIES AND ASSET MANAGEMENT

Project Name: Tantra Park Shop Renovation

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SOUTH BOULDER
Department:	PW/FACILITIES & ASSET MNGMT	BVCP Area:	AREA I
Project Number:	3150400415	CEAP Required:	No
CEAP Required:	No	CEAP Status:	

Project Description

Renovate the Tantra Park Shop for continuing use for Park Operations maintenance staff. The 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 2022.

Project Phasing

Planning: \$30,000 budgeted in 2022
 Construction: \$270,000 budgeted in 2022

Public Process

The future of Tantra Park property will be part of the Parks and Recreation Master Plan.

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

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

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	\$0

Total Funding Plan: \$300,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:
Additional Annual O&M Description:		

FACILITIES AND ASSET MANAGEMENT

Project Name: West Senior Center Maj Maint & Reha

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	CENTRAL BOULDER
Department:	PW/FACILITIES & ASSET MNGMT	BVCP Area:	AREA I
Project Number:	3150254715	CEAP Required:	No
CEAP Required:	No	CEAP Status:	

Project Description

This project provides refurbishment and replacement in the building including HVAC, electrical and plumbing systems. It renews all surface finishes including carpet, paint and ceilings. It 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. It also provides for requirements under which ADA standards and Boulder Energy Codes. Finally, it replaces 1995 roof sections as required.

This project is scheduled for 2020, but may change depending on the outcomes of the Civic Area Plan and the Human Services Department Master Plan.

Project Phasing

Planning: \$70,000 budgeted in 2019
 Construction: \$630,000 budgeted in 2019

Public Process

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

DET/Impact Fees

None

Interdepartmental and Interagency Collaboration

This project will be coordinated with the Human Services Department and the Civic Area planning process.

Change From Past CIP

Moved from 2019 to 2020

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Facility Renovation & Replace	\$0	\$0	\$0	\$0	\$700,000	\$0	\$0	\$0

Total Funding Plan: \$700,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:
Additional Annual O&M Description:		

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FIRE-RESCUE

OVERVIEW OF DEPARTMENT MISSIONS / GOALS

The Boulder Fire-Rescue Department provides emergency response to fires, medical emergencies, disasters, rescues and hazardous materials releases in Boulder. The 124 firefighters, engineers, station officers, chief officers, training division personnel, wildland division personnel, community risk reduction personnel and management staff work together to prevent emergencies from happening and to mitigate them when they do.

FUNDING OVERVIEW

The Fire-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.

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;
- Capital Tax renewal;
- 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; or
- Use of impact fees and Development Excise Taxes.

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

The Fire-Rescue CIP is likely contingent on renewal of the capital improvement sales tax, to be considered by Boulder voters in November 2017. Of highest priority is relocation of Fire Station #3 out of the 100-year floodplain, to a location that will provide quicker response to more calls for service.

Fire-Rescue will update its [master plan](#) in late 2017 – early 2018. The update will incorporate facility, equipment and staffing needs for a potential expansion into fire-based advanced life support (paramedicine) and transport that will inform future CIPs.

PROJECT HIGHLIGHTS

Fire-Rescue will begin its master plan update in 2017 for anticipated completion in 2018.

Although not identified in the CIP, Fire-Rescue received funding for a new station alerting system which will be operational in the second quarter of 2017. The new technology allows for simultaneous dispatch of multiple stations and automated information flow to reduce emergency response times.

BOARD ACTION

Fire-Rescue does not have an advisory board.

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INFORMATION TECHNOLOGY

OVERVIEW OF DEPARTMENT MISSIONS / GOALS

The mission of the Information Technology (IT) Department is to create an environment of seamless integration between people and technology.

FUNDING OVERVIEW

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. These systems represent the critical IT capital infrastructure upon which all the major IT CIP projects and existing city computer applications fundamentally depend. The revenue received in the Computer Replacement Fund is collected via charges to all city departments.

During 2017 the city will formalize the savings plan for major software replacement. Once the structure is in place these projects will accumulate funding for replacement of existing major software systems. One source of revenue for software replacement will be an annual General Fund appropriation.



CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

For 2018 there will be limited hardware replacements completed. Work will continue on several big projects started in 2016 and 2017, but will not be completed until 2018 or 2019. They include:

- Incremental central telephone system hardware and software upgrades (2016-2019)
- Backup system replacement and upgrade

A major update to the IT Strategic Plan is currently underway covering the period from 2018 to 2023 that will inform future capital needs and priorities. The IT funding study conducted in 2015 reaffirmed the need to create an organization wide savings plan for software replacement, inclusive of both enterprise wide systems as well as departmental business tools.

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*		
2017	2018	2019
Virtual Server, software and storage Hardware Replacement		
Data Backup and Disaster Recovery Replacement		
		Network Upgrade

*This table does not include all the projects in the CIP, see fund summary and projects sheets for the full list of projects.

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

INFORMATION TECHNOLOGY

BOARD ACTION

As an internal service IT does not have a citizen's board.

Click [here](#) to access the Information Technology Strategic Plan. Click [here](#) to access all master plans for the City of Boulder.

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2023 Projected
INFORMATION TECHNOLOGY	\$ 8,558,000	\$ 900,200	\$ 1,751,200	\$ 1,554,200	\$ 1,617,900	\$ 1,329,600
CIP-CAPITAL MAINTENANCE	\$ 8,558,000	\$ 900,200	\$ 1,751,200	\$ 1,554,200	\$ 1,617,900	\$ 1,329,600
Data Backup and Disaster Recovery	231,700	74,300	-	-	-	104,100
Database Hardware Replacement	150,600	-	-	19,200	65,600	-
End User Device Replacement	4,474,400	564,900	694,000	704,000	720,100	881,000
Network Hardware Replacement	2,979,900	228,100	985,800	795,800	289,600	323,000
Security Administration	124,100	3,500	37,600	35,200	30,000	-
Server Hardware Replacement	597,300	29,400	33,800	-	512,600	21,500

INFORMATION TECHNOLOGY

Project Name: Data Backup and Disaster Recovery

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	INFORMATION TECHNOLOGY	Subcommunity:	SYSTEM-WIDE
Project Number:	1901901520	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

Project Description

The project reflects the hardware, software and support needed to ensure reliable high speed backup of files, databases and applications 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. A major hardware replacement is planned in 2017, and will be completed during 2018.

Project Phasing

This is an ongoing program.

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Change From Past CIP

Updated to reflect latest estimates for timing and cost

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Computer Replacement	\$0	\$41,895	\$74,300	\$0	\$0	\$0	\$53,300	\$104,100

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$273,595

Additional Annual Operating and Maintenance

Additional Annual O&M:	0	Funding Source for O&M:
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Additional Annual O&M Description:

None expected. O&M covered by CRF.

INFORMATION TECHNOLOGY

Project Name: Database Hardware Replacement

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	INFORMATION TECHNOLOGY	BVCP Area:	SYSTEM-WIDE
Project Number:	1901901530	CEAP Status:	N/A
CEAP Required:	No		

Project Description

Hardware and related software necessary to provide and support the computing infrastructure that delivers critical database services. Project includes maintenance and end of life equipment replacement.

Project Phasing

This is an ongoing program, designed to fund the periodic replacement of database servers. Timing is dependent on age of existing hardware and projected useful life of current equipment.

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Change From Past CIP

Updated to reflect latest estimates for timing and cost

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Computer Replacement	\$0	\$0	\$0	\$0	\$19,200	\$65,600	\$65,800	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$150,600

Additional Annual Operating and Maintenance

Additional Annual O&M:	0	Funding Source for O&M:
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Additional Annual O&M Description:

No additional amount expected. O&M already funded by CRF.

INFORMATION TECHNOLOGY

Project Name: End User Device Replacement

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	INFORMATION TECHNOLOGY	Subcommunity:	SYSTEM-WIDE
Project Number:	1901901505	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

Project Description

Funding for replacement of PCs, printers, and other end user hardware. This routine replacement of end user hardware is performed to avoid equipment failure which would interrupt business operations.

Project Phasing

This is on-going annual program, funding for purchase of hardware with useful life of 3-4 years.

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

City-wide Enterprise service supporting all city departments.

Change From Past CIP

Adjusted to reflect planned replacement timing of assets

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Computer Replacement	\$0	\$619,147	\$564,900	\$694,000	\$704,000	\$720,100	\$910,400	\$881,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: **\$5,093,547**

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

None Expected. O&M already covered by the CRF

INFORMATION TECHNOLOGY

Project Name: Network Hardware Replacement

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	INFORMATION TECHNOLOGY	BVCP Area:	SYSTEM-WIDE
Project Number:	1901901511	CEAP Status:	N/A
CEAP Required:	No		

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.

Project Phasing

In years 2017 and 2018, a limited amount 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 which may result in significant changes to the city's overall network infrastructure design at that time. Another 25% of the system will be replaced during 2020.

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

City-wide enterprise project supporting all city departments.

Change From Past CIP

Updated to reflect most current information available on replacement

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Computer Replacement	\$0	\$226,968	\$228,100	\$985,800	\$795,800	\$289,600	\$357,600	\$323,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$3,206,868

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

None expected. O&M already included in the CRF.

INFORMATION TECHNOLOGY

Project Name: Security Administration

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	INFORMATION TECHNOLOGY	BVCP Area:	SYSTEM-WIDE
Project Number:	1901901517	CEAP Required:	N/A
CEAP Required:	N/A	CEAP Status:	N/A

Project Description

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. Planning of future enhancements will be included in the upcoming IT Strategic Plan redevelopment process.

Project Phasing

This is an ongoing program.

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Change From Past CIP

Updated to reflect latest timing and cost information

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Computer Replacement	\$0	\$1,862	\$3,500	\$37,600	\$35,200	\$30,000	\$17,800	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: **\$125,962**

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

None expected. O&M covered by the CRF.

INFORMATION TECHNOLOGY

Project Name: Server Hardware Replacement

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	INFORMATION TECHNOLOGY	BVCP Area:	SYSTEM-WIDE
Project Number:	1901901515	CEAP Status:	N/A
CEAP Required:	No		

Project Description

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 data storage resources, internal/external web systems, and electronic document management repositories. Project includes maintenance and end of life equipment replacement.

Project Phasing

During 2016 the city's virtual server farm and Network Attached storage was replaced. This project is scheduled to occur again in 2021.

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Change From Past CIP

Updated to reflect latest information on cost and timing

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Computer Replacement	\$0	\$38,000	\$29,400	\$33,800	\$0	\$512,600	\$0	\$21,500

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$635,300

Additional Annual Operating and Maintenance

Additional Annual O&M:	0	Funding Source for O&M:
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Additional Annual O&M Description:

None expected. O&M included in the CRF.

LIBRARY AND ARTS

OVERVIEW OF DEPARTMENT MISSION

Boulder Public Library Mission: The mission of the Boulder Public Library is to enhance the personal and professional growth of Boulder residents and contribute to the development and sustainability of an engaged community through free access to ideas, information, cultural experiences and educational opportunities.

Office of Arts and Culture Mission: The mission of the Boulder Office of Arts and Culture is to facilitate an alignment in the creative community around our shared vision for culture: Together, we will craft Boulder's social, physical, and cultural environment to include creativity as an essential ingredient for the well-being, prosperity, and joy of everyone in the community.

FUNDING OVERVIEW

Boulder Public Library: The Library is funded through a combination of the General Fund and Library Fund support. The General Fund provides approximately 90% of the support. The Library receives dedicated Capital Facility Impact Fees that can be used to support capital expansion of library facilities. Beyond that, there is no dedicated funding source for major capital projects for the Library. Ongoing renovation and maintenance oriented capital needs are addressed on a case-by-case basis in conjunction with the Facilities and Asset Management (FAM) Division of Public Works and are typically funded either with General Fund dollars or with accumulated Library Fund balance. In total, capital funding for the Library is sourced through the following:

- An increase in sales and use tax;
- An increase in property tax mill levy;
- An increase in Capital Facility Impact Fees;
- Third-party grants and donations;
- Bond funding; and
- Use of existing operating funding to build capital fund or pool of money available for capital projects.

Office of Arts and Culture: The Office of Arts and Culture is funded by the General Fund, with a portion of funding for the public art program derived from the Community, Culture, and Safety Tax.

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

Boulder Public Library: The Library is currently undergoing a Master Plan update with expected completion in the last quarter of 2017. The master plan will guide library services and spaces and it will serve as a basis to prioritize future capital planning efforts. The 2007 Library Master Plan identified several space needs within the Main Library which were addressed in the \$4.8 million renovation that was funded with 2011 Capital Bond dollars. The priority of other capital projects identified in the 2007 Master Plan will be identified in the upcoming Master Plan update, e.g. North Boulder Branch Library.

Office of Arts and Culture: The Office of Arts and Culture public art program has a substantive capital component and is guided by Community Cultural Plan, the Public Art Policy, and Public Art Program Implementation Plan. The initial deployment of \$475,000 in funding dedicated to a series of public art projects throughout the city is underway. These revenues are being generated through the pay-as-you-go Community, Culture and Safety Tax and a one-time allocation from the General Fund.

LIBRARY AND ARTS

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*	
2018	2019
	Civic Area 11st Spine Artwork
	Arapahoe Underpass Artwork
Experiments in Public Art Temporary Series	
	University Hill Art Temporary Series
	North Boulder Artwork

**This table does not include all the projects in the CIP, see fund summary and projects sheets for the full list of projects.*

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

Click [here](#) to access the Library Master Plan. Click [here](#) to access all master plans for the City of Boulder.

OPEN SPACE AND MOUNTAIN PARKS

OVERVIEW OF DEPARTMENT MISSIONS / GOALS

The City of Boulder's Open Space and Mountain Parks Department (OSMP) preserves and protects the natural environment and land resources that characterize Boulder. We foster appreciation and use that sustain the natural values of the land for current and future generations. In 1986, Boulder residents approved a charter that requires OSMP to acquire, maintain, preserve, retain and use open space land for the following purposes:

- Preservation or restoration of natural areas characterized by or including terrain, geologic formations, flora, or fauna that are unusual, spectacular, historically important, scientifically valuable, or unique, or that represent outstanding or rare examples of native species
- Preservation of water resources in their natural or traditional state, scenic areas or vistas, wildlife habitats, or fragile ecosystems
- Preservation of land for passive recreational use, such as hiking, photography or nature studies, and, if specifically designated, bicycling, horseback riding or fishing
- Preservation of agricultural uses and land suitable for agricultural production
- Utilization of land for shaping the development of the city, limiting urban sprawl, and disciplining growth
- Utilization of non-urban land for spatial definition of urban areas
- Utilization of land to prevent encroachment on floodplains
- Preservation of land for its aesthetic or passive recreational value and its contribution to the quality of life of the community

Since 2015, Open Space and Mountain Parks has focused on a reorganization of the work force and filling vacant and new positions created in the organization. OSMP leadership has used the charter as a guide to identify CIP project priorities that fit within the Sustainability Framework. The top priorities for 2018 include working to implement the priorities of several OSMP management plans and working with partners to develop regional trails. The 2018-2023 CIP represents a continued shift towards system stewardship and taking care of existing infrastructure and habitat preservation/restoration while gradually slowing funding to support new acquisitions. In addition, OSMP will be working on an update to the Visitor Master Plan which has been recast as the Open Space Master Plan.

FUNDING OVERVIEW

Open Space and Mountain Parks' CIP projects are funded from two sources, the Open Space Fund and the Lottery Fund. The Open Space Fund accounts for the acquisition and maintenance of land, with financing provided by sales taxes and the issuance of long-term bonds and notes payable. Approximately 92 percent of Open Space Fund revenue derives from dedicated sales and use tax collections. There are three sales taxes that support the Open Space Fund:

- 0.40 percent sales tax which has no sunset;
- 0.33 percent sales tax which will be reduced to 0.22 percent on January 1, 2019 and which has no sunset; and
- 0.15 percent sales tax which will be repurposed for Transportation uses as of January 1, 2020, repurposed again for general city purposes as of January 1, 2030, and expires December 31, 2039.

In 2014 the department issued \$10 million of its approved \$33 million in bonds to support the purchase of land.

OPEN SPACE AND MOUNTAIN PARKS

The Lottery Fund derives its revenue from the Colorado Conservation Trust Fund. Lottery Funds can be used for acquisition, development and maintenance of new conservation sites and capital improvements and maintenance of public sites. Annual appropriation is estimated at \$355,300 with adjustments made based on revenues of the Conservation Trust Fund.

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

The 2018 Open Space and Mountain Parks Department capital budget includes projects that are a part of the department's core mission including ongoing strategic property acquisitions; capital maintenance of trailheads and trails; agricultural lands management; capital ecosystem maintenance and restoration; and strategic and resource planning. After two years of significant asset assessment including facilities and trails condition, OSMP is increasing its stewardship investment after completing FEMA reimbursable flood recovery projects that have been the focus of the OSMP CIP since 2013. The department's 2018 capital budget will align with the following departmental work program priorities for 2018:



OSMP volunteers working on flood recovery



OSMP volunteers working on flood recovery at Doudy Draw

Open Space and Mountain Parks Master Plan or OS(MP)²;

- Strategic planning and implementation for the Top Priorities of West TSA, North TSA, and Agricultural Resource Management Plan;
- Continue to Implement Grassland Ecosystem Management Plan and Forest Ecosystem Management Plan (FEMP);
- Continue to Improve the Visitor Experience – Follow through on initiatives such as recycling/dog waste composting at trailheads and monitoring and reporting results on Voice & Sight program;
- Develop Regional Trails through strategic property acquisition, coordination with other agencies, and other avenues as needed;
- Make Progress on OSMP Campus Vision. A campus relocation may include acquisition of land, construction of a new facility and/or major renovation of an existing facility depending on site opportunities;
- Focus on Continuous Improvement within the OSMP Department - Such as to continue to assess and develop best practices related to OSMP's scientific approach, data stewardship, recreation planning and design, work plan and budget management, staff training and development, staff work space, equipment and facilities, communication and coordination internally and externally.

OPEN SPACE AND MOUNTAIN PARKS

The 2018 capital budget will allow the department to meet business needs while understanding that additional adjustments will be necessary over the coming years as the Master Plan is developed and OSMP receives initial results from ongoing assessments of assets, including those of office space, trails condition, and buildings, structures and other facilities.



Flatirons Vista after repaired culvert

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*		
2017	2018	2019
OSMP Master Plan Portfolio	OSMP Master Plan underway	OSMP Master Plan complete
Strategic property acquisition according to Acquisition Plan		
Development of OSMP Campus vision including move to interim space		
Facilities maintenance in accordance with assessment results		
West TSA implementation: Mesa flood recovery	West TSA implementation: Fern/Shanahan/Mesa	West TSA implementation: 1st/2nd Flatiron
North TSA implementation: Dagge Trailhead	North TSA implementation: Wonderland Lake site plan	North TSA implementation: North Foothills site plan
Major trail maintenance: Chautauqua Meadow	Major trail maintenance: Green Mountain West Ridge	Major trail maintenance: Anenome Trail
Regional trail: Boulder Creek Bikepath	Regional trail: Rocky Mountain Greenway FLAP	
Ecological Restoration: Boulder Creek confluence	Ecological Restoration: South Boulder Creek headgate	Ecological Restoration: Lower Boulder Creek

**This table does not include all the projects in the CIP, see fund summary and projects sheets for the full list of projects.*

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

BOARD ACTION

The Open Space Board of Trustees unanimously recommended the 2018-2023 CIP on June 14, 2017 after previous review at the April 12 and May 10 business meetings.

OPEN SPACE AND MOUNTAIN PARKS

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
OPEN SPACE & MOUNTAIN PARKS	\$ 29,865,300	\$ 9,435,300	\$ 5,270,000	\$ 4,415,000	\$ 4,465,000	\$ 3,940,000	\$ 2,340,000
CIP-CAPITAL ENHANCEMENT	\$ 2,708,000	\$ 858,000	\$ 530,000	\$ 380,000	\$ 380,000	\$ 330,000	\$ 230,000
Emergent Lottery Projects	428,000	428,000	-	-	-	-	-
NTSA Implementation	1,250,000	350,000	300,000	150,000	150,000	150,000	150,000
Regional Trails	480,000	80,000	80,000	80,000	80,000	80,000	80,000
WTSA Implementation	550,000	-	150,000	150,000	150,000	100,000	-
CIP-CAPITAL MAINTENANCE	\$ 4,917,300	\$ 1,057,300	\$ 720,000	\$ 735,000	\$ 785,000	\$ 810,000	\$ 810,000
Agriculture and Water Facilities	770,000	110,000	110,000	125,000	125,000	150,000	150,000
Cultural Resource/Facility Restorat	527,300	27,300	100,000	100,000	100,000	100,000	100,000
Ecological System Maintenance/Restr	800,000	300,000	100,000	100,000	100,000	100,000	100,000
Facilities Maintenance	1,800,000	400,000	250,000	250,000	300,000	300,000	300,000
Farm Site Improvements	360,000	60,000	60,000	60,000	60,000	60,000	60,000
Major Infrastructure Maintenance	660,000	160,000	100,000	100,000	100,000	100,000	100,000
CIP-CAPITAL PLANNING STUDIES	\$ 200,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -
OSMP Master Plan Update	200,000	100,000	100,000	-	-	-	-
CIP-LAND ACQUISITION	\$ 22,040,000	\$ 7,420,000	\$ 3,920,000	\$ 3,300,000	\$ 3,300,000	\$ 2,800,000	\$ 1,300,000
Mineral Rights Acquisition	600,000	100,000	100,000	100,000	100,000	100,000	100,000
New Property Stabilization	720,000	120,000	120,000	120,000	120,000	120,000	120,000
OSMP Campus Relocation	6,500,000	2,500,000	1,000,000	1,000,000	1,000,000	1,000,000	-
OSMP Real Estate Acquisition	13,500,000	4,500,000	2,500,000	2,000,000	2,000,000	1,500,000	1,000,000
Water Rights Acquisition	720,000	200,000	200,000	80,000	80,000	80,000	80,000

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Agriculture and Water Facilities

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	OPEN SPACE & MOUNTAIN PARKS	Subcommunity:	SYSTEM-WIDE
Project Number:	555AG15001	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

Project Description

This item funds smaller capital maintenance projects for the repair, replacement or renovation of existing OSMP agricultural infrastructure. This money is used for replacement or new installation of fences (approx. 8-10 fence projects per year at \$5k-\$10k per project) and agricultural irrigation items such as head gates, division boxes and irrigation ponds (approx. 4-6 irrigation projects per year at \$7k to \$12k). The projects are either identified in the Agricultural Resource Management Plan that is on track to be adopted in 2017, the current OSMP fence inventory, or from current irrigation infrastructure inspections and inventories. Facilities, Agricultural, Farm Site, and Cultural Facilities investment programs have and will be planned and implemented in concert to address capital maintenance priorities over time.

Project Phasing

Construction Phase for maintenance to existing OSMP infrastructure. Spending in 2015 and 2016 supported fencing on strategic properties as well as water diversion structures where needed. Funding in 2017 will continue to utilize existing fence and irrigation infrastructure inspections and inventories to determine project priorities. Out-year projects will be identified through updated inventories of the fencing and irrigation infrastructure.

Planning and Design: \$0

Construction: \$110,000 in 2018 (2019-2023 gradually increases based on deferred maintenance requirements)

Public Process

The Agricultural Resource Management Plan is expected to be approved in 2017 and will have incorporated significant public process. The projects funded through this CIP will align with the recommendations from the plan. These funds will generally be used to replace the existing infrastructure. Adjacent property owners will be consulted, as necessary.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

The city's Utilities staff 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

None. This program is funded annually in the OSMP CIP.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$100,341	\$219,659	\$110,000	\$110,000	\$125,000	\$125,000	\$150,000	\$150,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$1,090,000

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

This maintenance work will reduce future O&M costs.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Cultural Resource/Facility Restorat

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555CR15001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

Improvement of the condition of historic structures, including but not limited to barns, houses, sheds, and shelters, as well as planning and development of a cultural preservation assessment and prioritization plan. Historic structure maintenance will also be identified through the OSMP facilities assessment with results expected in 2017. Facilities, Agricultural, Farm Site, and Cultural Facilities investment programs have and will be planned and implemented in concert to address capital maintenance priorities over time.

Project Phasing

Planning - \$20k. The early funding will cover an assessment and prioritization of the OSMP cultural and historic resources. This effort will inform the future spending in coordination with the department facilities assessment. Funding in 2017 will support immediate needs while waiting for the results of the assessment. Out-year projects will be identified through the assessment.

Construction - \$80k. Projects in 2018 include maintenance to the Hunter Kolb and Hartnagle properties. (same funding through 2023)

Public Process

Updates on work will be provided to the OSBT, as needed. Most work is maintenance to existing structures so public process is not anticipated.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Work will be coordinated with Boulder County Preservation staff and the State Historic Preservation office.

Change From Past CIP

None. Program is funded annually in the OSMP CIP.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$13,605	\$156,395	\$27,300	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$697,300

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Additional Annual O&M Description:

Improvements to facilities will likely reduce O&M needs

Funding Source for O&M:

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Ecological System Maintenance/Restr

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	OPEN SPACE & MOUNTAIN PARKS	Subcommunity:	SYSTEM-WIDE
Project Number:	555ES17001	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

Project Description

As OSMP shifts from acquisition to system stewardship, these ongoing capital dollars will support ecological system maintenance and restoration as directed by the Open Space Master Plan, Trail Study Area Plans, Grassland and Forest Management Plans, and Agricultural Plan.

Project Phasing

This CIP project was created in 2017 to signal future investment in ecological stewardship. At that time OSMP anticipated accessing these funds after flood projects were completed. OSMP expects to compete FEMA reimbursable projects in 2017 and begin to use these funds to implement top priorities of the Trail Study Area Plans, Grassland Plan, and Forest Ecosystem Management Plan.

Planning/Design/Construction: \$300,000 in 2018 to address deferred maintenance that accumulated during flood recovery. (\$100,000 each year 2019-2023)

Public Process

Projects will be priorities of the Open Space Master Plan, Trail Study Area Plans, Grassland and Forest Management Plans, and Agricultural Plan, all of which involved public process.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

OSMP will coordinate with adjacent agency property owners when necessary.

Change From Past CIP

Annual funding in the OSMP CIP.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$0	\$110,000	\$300,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$910,000

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

Improvements will likely reduce O&M needs

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Emergent Lottery Projects

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555EmerLot	CEAP Status:	N/A
CEAP Required:	No		

Project Description

This project is to capture multiple projects all funded through the lottery fund. Funds in 2017 and 2018 will support work at Boulder Falls including design and construction. Specifically, the Boulder Falls project will widen the trail, repair the gabion walls and install a handrail.

Project Phasing

Exist in perpetuity to capture non-allocated lottery projects. Out-year funding is not projected as lottery funding amount is determined annually.

Public Process

Public process will be determined based on the annual project supported by Lottery dollars in accordance with city and department guidelines.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Emerging Lottery projects will be managed according to city and department standards, including interagency collaboration as needed.

Change From Past CIP

Future Lottery projects will be reflected in this CIP sheet.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Lottery	\$0	\$544,694	\$428,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$972,694

Additional Annual Operating and Maintenance

Additional Annual O&M:	Unknown.	Funding Source for O&M:
Additional Annual O&M Description:	Ongoing maintenance unknown at this time.	

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Facilities Maintenance

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	OPEN SPACE & MOUNTAIN PARKS	Subcommunity:	SYSTEM-WIDE
Project Number:	555FA17001	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

Project Description

In 2016, OSMP began a facilities assessment to inventory all OSMP structures, determine their condition and what is needed to maintain them including the priority of each facility along with estimated maintenance and repair costs both immediate and long term. This information will be delivered to OSMP in the second quarter in 2017 in a database. Facilities, Agricultural, Farm Site, and Cultural Facilities investment programs have and will be planned and implemented in concert to address capital maintenance priorities over time. This will become the OSMP Asset Management Plan.

Project Phasing

Funding in 2016 supported the facilities assessment contract. Funding in 2017 will support immediate needs while waiting for the results of the assessment. Out-year projects will be identified through the assessment.

Planning and Design: \$0

Construction: \$400,000 in 2018 (2019-2023 based on deferred maintenance requirements)

Public Process

Public process is not anticipated, as Facilities projects will involve maintenance to existing structures. Project priorities will be identified through the 2016 facilities assessment.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Consultation with Facilities and Asset Management as needed. Most of this maintenance work is on OSMP property and will be coordinated with the adjacent property owners and the OSMP staff, if needed.

Change From Past CIP

Annual funding in the OSMP CIP.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$246,314	\$280,460	\$400,000	\$250,000	\$250,000	\$300,000	\$300,000	\$300,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$2,326,774

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

This will reduce future O&M costs.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Farm Site Improvements

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555AG16001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

This funding is for deferred maintenance to existing agricultural buildings and infrastructure. It is mainly for out-buildings and structures that are used for hay and equipment storage, livestock shelters and grain storage. The funding could also be used for maintenance on farm homes that exist on OSMP properties that are used to support agricultural production. The improvements may be identified in the Agricultural Resource Management Plan that is expected to be approved in 2017 or through other methods such as prioritization of the recently completed facilities condition assessment. The necessary work and funding level may be revised in future years as the needs and the work planning is completed. Facilities, Agricultural, Farm Site, and Cultural Facilities investment programs have and will be planned and implemented in concert to address capital maintenance priorities over time.

Project Phasing

Construction Phase for maintenance to existing OSMP infrastructure. OSMP will receive the final results of the facilities assessment in 2017. Spending in 2016 supported septic and water expenses while funding in 2017 will support immediate needs while waiting for the results of the assessment. Out-year projects will be identified through the assessment.

Planning and Design: \$0

Construction: \$60,000 in 2018 (same through 2023)

Public Process

The projects are maintenance to existing structures on OSMP properties so no process is anticipated.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Project funds used in accordance with the OSMP Agricultural Plan expected to be approved in 2017. Out-year funds will also consider guidance from the Open Space Master Plan expected to be completed in 2019. Most of this maintenance work is on OSMP property and will be coordinated with the adjacent property owners and the OSMP staff, if needed.

Change From Past CIP

None. This program is funded annually in the OSMP CIP.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$3,623	\$116,377	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$480,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	0	Funding Source for O&M:
Additional Annual O&M Description:		

The maintenance will lessen O&M requirements.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Major Infrastructure Maintenance

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555OSTP002	CEAP Status:	N/A
CEAP Required:	No		

Project Description

In 2016 OSMP initiated a Trails Condition Assessment, the results of which will shape major trail maintenance investment throughout the CIP horizon. This CIP project is part of an increased department-wide investment in land and system stewardship. 2017 spending and beyond will be guided by assessment results, Trail Study Area Plans, and the Open Space Master Plan expected to be completed in 2019.

Project Phasing

This CIP project was created in 2016 to signal future investment in trails stewardship. At that time OSMP anticipated accessing these funds after flood recovery projects were completed. OSMP expects to compete FEMA reimbursable projects in 2017 and begin to use these funds to implement top priorities of the Trail Study Area Plans while awaiting trail assessment results.

Funding in 2018 at \$160k (\$100k per year 2019-2023)

Public Process

Public process is not anticipated, as projects will involve maintenance of existing trails and/or implementation of Trail Study Area Plan priorities which incorporated public process. These projects will be noticed on our web page.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Work will be coordinated within OSMP. Collaboration with other city departments and other agencies will be project specific.

Change From Past CIP

Annual funding in the OSMP CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$3,288	\$124,822	\$160,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$788,110

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

Improvements will likely reduce O&M needs

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Mineral Rights Acquisition

Project at a Glance

Project Type:	CIP-LAND ACQUISITION	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555MRA001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

This on-going program provides funding to purchase underlying mineral interests from private property owners 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. By purchasing the rights to the mineral, the city is purchasing a physical asset. Funds also provide for research, mapping and analyzing potential acquisitions. This project is for an ongoing program fund. 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.

Project Phasing

Research and Acquisition: \$100,000 in 2018. (same through 2023)

Public Process

Public process is not anticipated for this project.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Collaboration with other departments and agencies are generally not required for the acquisition of mineral rights.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$49,964	\$711,220	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,361,184

Additional Annual Operating and Maintenance

Additional Annual O&M:	0	Funding Source for O&M:
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Additional Annual O&M Description:

Included in annual appropriation for operations

OPEN SPACE AND MOUNTAIN PARKS

Project Name: New Property Stabilization

Project at a Glance

Project Type:	CIP-LAND ACQUISITION	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555RE15001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

Funds for new property stabilization/immediate improvements on OSMP Real Estate Acquisitions. Previously, the amount of funding allocated to this project was by property as indicated in the Closing Memo at the time of acquisition. This has resulted in insufficient funding to bring new properties to OSMP standards, including breakdown and/or restoration of structures, fencing, etc. In 2017, OSMP began to set an amount per year dedicated to property stabilization which will carry on to future years.

Project Phasing

Research and Stabilization: \$120,000 in 2018 (same through 2023)

Public Process

Each property acquisition is presented to the OSBT and City Council for approval. New Property Stabilization needs are identified by staff prior to property acquisition and these CIP dollars support stabilization to integrate new properties into the system.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Most of this maintenance work is on OSMP property and will be coordinated with the adjacent property owners and OSMP staff, if needed.

Change From Past CIP

Annual funding in the OSMP CIP.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$42,850	\$349,150	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,112,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	TBD	Funding Source for O&M:
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Additional Annual O&M Description:

Project improves properties to integrate into system, minimal O&M.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: NTSA Implementation

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555NTSA001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The North Trail Study Area Plan was approved in 2016 and delineates new trails, major maintenance for designated trails, and closure and reclamation of the other undesignated trails. Also detailed in the plan are conservation projects, trailhead improvements and upgraded and/or additional regulatory, way-finding and interpretive signs. Implementation of plan recommendations will begin in 2017 and continue throughout the CIP horizon.

Project Phasing

In 2017, NTSA will include design and initial implementation of trailhead and conservation projects. Funding in 2018 will support integrated site planning at the North Foothills and Wonderland Lake sites. These 1:200 scale plans will yield finer detail than the overall NTSA plans and will incorporate facilities, conservation, trail and other elements with the goal of a coordinated NTSA implementation approach at these sites. Integrated site planning to support NTSA implementation is considered a pilot project for 2018.

Planning and Design: \$300,000 in 2018

Construction: \$50,000 in 2018 (2019-2023 determined based on implementation horizon outlined in NTSA plan)

Public Process

All projects called out in the NTSA Plan went through the lengthy public involvement process of plan development. Once detailed plans are developed for some of the larger projects, such as the North Sky Trail, additional outreach to the community will be needed. These project plans will also be vetted by the Open Space Board of Trustees.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Coordination with the city Parks and Recreation Department for the Boulder Reservoir Master Plan, with Boulder County Transportation, Parks, and Open Space on neighboring properties and with CDOT on properties adjacent to their facilities, including US36.

Change From Past CIP

Funding adjusted in out years based on plan costing.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$86,215	\$198,293	\$350,000	\$300,000	\$150,000	\$150,000	\$150,000	\$150,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,534,507

Additional Annual Operating and Maintenance

Additional Annual O&M: Minimal

Funding Source for O&M:

Additional Annual O&M Description:

Monitor, maintain, rehabilitate new trails when constructed.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: OSMP Campus Relocation

Project at a Glance

Project Type:	CIP-LAND ACQUISITION	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555FA16001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

Currently, OSMP has roughly 13,000 square feet of office space. In 2015, OSMP completed Phase 1 of its space analysis, which identified short-, medium-, and long-term departmental space needs. This analysis found that the department needs approximately 35,000 square feet of space. In 2016, Phase 2 evaluated space alternatives including utilization of the current space (spread across various locations either as it exists or reconfigured). Existing site land use provisions and utilities constraints do not allow for expansion in the interim or long term. Phase 2 determined that there is a need to pursue a new OSMP campus. In 2017 OSMP will identify and move into an interim location addressing current deficiencies, while working to understand and program for the long-term campus vision.

Project Phasing

In 2017 OSMP will begin phases 3a and 3b of the campus relocation project. Phase 3a involves the move into an interim office with location to be determined. Phase 3b is expected to span multiple years and determine the long-term location of the department. OSMP anticipates funding a Campus Relocation CIP for the duration of the CIP horizon.

- 2017 - Lease Space
- 2018- Remodel CVN, Annex, and Ute Purchase Property
- 2019 - Design and permitting process
- 2020 - Construct new campus
- 2021 - Relocate to new campus

Public Process

Public process is not anticipated at this time. In 2017 OSMP formed an internal team to identify space needs and options for a campus relocation.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

This effort will be coordinated with FAM so they can serve as a technical resource to help direct and review any proposals and cost estimates. Furthermore, coordination with FAM allows for potential collaboration on current and future citywide solutions.

Change From Past CIP

Annual funding in the OSMP CIP through 2023

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$90,979	\$1,519,561	\$2,500,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$8,110,540

Additional Annual Operating and Maintenance

Additional Annual O&M:	TBD	Funding Source for O&M:
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Additional Annual O&M Description:

Any additional O&M can't be quantified until the plan is developed.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: OSMP Master Plan Update

Project at a Glance

Project Type:	CIP-CAPITAL PLANNING STUDIES	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555OSMP001	CEAP Required:	No
CEAP Required:	No	CEAP Status:	N/A

Project Description

The project objective is to develop an OSMP master plan that City Council adopts by 4th quarter 2019, establishing the policies, focus areas and strategic priorities guiding OSMP operations over the next 10 years. The plan will align the department with shared goals, measurable objectives and metrics to implement the Open Space sections of the City Charter. An OSMP Master Plan will improve integration of departmental work group efforts and be clearly linked to the Boulder Valley Comprehensive Plan. In 2017, OSMP hired an outside consulting firm to lay the groundwork for the planning process, which will begin in early 2018 and conclude by the end of 2019.

Project Phasing

OSMP staff have developed a three-phased approach for completing and operationalizing the master plan over the next 3-4 years:

1. Understanding the state of the OSMP system (2016-2017)
2. Developing the master plan (2018-2019)
3. Plan roll-out and implementation (2019+)

2017 funding will support the contract with the consulting firm. An additional \$100,000 in 2018 and \$100,000 in 2019 will also support the project.

Public Process

Inclusive, consistent and creative engagement opportunities will be designed for both staff and community stakeholders in order to gather input, solicit feedback, as well as build buy-in and alignment. The plan will result in a series of final products to reach four major audiences: review and approval bodies, the Boulder community, our partners and staff. To these ends, a robust engagement strategy will be designed in 2017 and provided to OSBT in late 2017 and to City Council in early 2018 for approval.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

The OSMP Master plan will link with the Boulder Valley Comprehensive Plan. This will provide a nexus for interdepartmental collaboration around issues such as ecological conservation, health, and climate action.

Change From Past CIP

Funding adjusted in out years based on revised costing.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$71,362	\$471,838	\$100,000	\$100,000	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$743,200

Additional Annual Operating and Maintenance

Additional Annual O&M: TBD

Funding Source for O&M:

Additional Annual O&M Description:

Cannot be determined until Plan is developed and approved by Council.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: OSMP Real Estate Acquisition

Project at a Glance

Project Type:	CIP-LAND ACQUISITION	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555REA001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

This project is the acquisition of additional acres of open space, whether in fee or easement, from private property owners or others. Acquisition is guided by the Open Space and Mountain Parks Acquisition Plan Update as approved by OSBT and City Council. The amount of this CIP project will gradually decrease after 2019 as OSMP increases its investments in stewardship activities and as the amount of identified priority acquisitions decrease. In addition, should water or mineral rights become available to purchase and funds allocated for that purpose are insufficient, Land Acquisition funds may be utilized to make up the deficiency. Acquisitions can be episodic since a number of dynamics are at play including economic factors, property owner interest, partnership opportunities, agreeable terms of scale, etc.

Project Phasing

All of this funding is for property acquisition and direct associated research and acquisition costs. Beginning in 2017, stabilization and immediate property needs for new acquisitions will be funded separately, in the New Property Stabilization Project.

Research and Acquisition: \$4,500,000 in 2018.

(Funding decreases after 2019)

Public Process

Each property acquisition must be approved by OSBT and Council.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Coordinate with internal OSMP as needed before acquisition. Typically other department or outside agency coordination is not required, however other agencies will be engaged when circumstances dictate.

Change From Past CIP

Reduced over time to reflect shift to stewardship.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$154,176	\$18,490,146	\$4,500,000	\$2,500,000	\$2,000,000	\$2,000,000	\$1,500,000	\$1,000,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$32,144,322

Additional Annual Operating and Maintenance

Additional Annual O&M:	Minimal	Funding Source for O&M:	
Additional Annual O&M Description:			

Reflected in New Property Stabilization CIP project.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Regional Trails

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555RT18001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

Based on council direction, OSMP has identified development of regional trails as a department priority, understanding that regional trails provide connection opportunities for system visitors while promoting interagency collaboration. Initial funding for regional trails was supported the expansion of the Boulder Creek Bike Path, a Boulder County managed project for which OSMP contributed local match. Before now, previous funding was determined on a project by project basis with different sources. Moving forward, OSMP will annually budget CIP dollars and continue to work with city partners and other agencies to support strategic regional trails where possible.

Project Phasing

In 2016 and 2017, project funding supported expansion of the Boulder Creek Bike Path. In 2018, project funding will support development of a Boulder to Lyons "Rocky Mountain Greenway" and a continuation of the Eldo to Walker Feasibility Study.

Planning and Design: \$60,000 in 2018

Construction: \$20,000 in 2018 (overall project funding \$80,000 from 2019-2023) Adjustments may need to be made as projects mature.

Public Process

Strategic regional trails are called out in OSMP plans and have therefore incorporated public process. As OSMP completes feasibility and other analyses, further public process may be incorporated as necessary.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Regional trail development will be completed in partnership with communities connecting OSMP trails to their own. Currently identified projects include Boulder to Lyons and Eldorado to Walker connections. Both projects will be lead by Boulder County with the city involved as a partner.

Change From Past CIP

New project with annual funding in the OSMP CIP.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$0	\$0	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$480,000

Additional Annual Operating and Maintenance

Additional Annual O&M: TBD

Funding Source for O&M:

Additional Annual O&M Description:

Monitor, maintain, rehabilitate new trails when constructed.

OPEN SPACE AND MOUNTAIN PARKS

Project Name: Water Rights Acquisition

Project at a Glance

Project Type:	CIP-LAND ACQUISITION	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555WRA001	CEAP Status:	N/A
CEAP Required:	No		

Project Description

This on-going project provides funding to purchase additional water from private owners or others for use on Open Space and Mountain Parks for agricultural and environmental purposes. By purchasing the water rights, the city is purchasing a physical asset. 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 departments water rights portfolio. This project is for an ongoing funding program. In addition, should mineral rights or real property become available to purchase and funds allocated for that purpose are insufficient, water rights acquisition funds may be utilized to make up the deficiency.

Project Phasing

Research and Acquisition: \$200,000 in 2018. (same through 2023)

Public Process

Public process is not anticipated for this project.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Coordinate with internal OSMP staff including ecologists, cultural and historic, integrated pest management, agricultural management and water resources. Typically other department or outside agency coordination is not required.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$474,586	\$454,529	\$200,000	\$200,000	\$80,000	\$80,000	\$80,000	\$80,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,649,115

Additional Annual Operating and Maintenance

Additional Annual O&M: Minimal

Additional Annual O&M Description:

Included in annual appropriations for operations

Funding Source for O&M:

OPEN SPACE AND MOUNTAIN PARKS

Project Name: WTSA Implementation

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SYSTEM-WIDE
Department:	OPEN SPACE & MOUNTAIN PARKS	BVCP Area:	SYSTEM-WIDE
Project Number:	555WTSA002	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The West Trail Study Area Plan delineates new trails, major maintenance for designated trails, and closure and reclamation of undesignated trails. Also detailed in the plan are conservation projects, trailhead improvements and upgraded and/or additional regulatory, way-finding and interpretive signs. Implementation of plan recommendations began in 2012 and will continue throughout the 2018-2023 CIP horizon. In some cases WTSA projects have been delayed and/or modified due to the 2013 flood event impacting the need to advance FEMA funded projects and/or adaptively design and manage projects due to changed conditions from the flood.

Project Phasing

In 2015, WTSA funds supported Anderson Ditch and Amphitheatre projects. In 2016, repairs to Long Canyon and Bear Canyon Trail were completed while multi-year projects on Mesa and NCAR/Bear Connector were started. In 2017, funds will continue to support work on Mesa and NCAR/Bear Connector as well as the 1st/2nd Flatiron. Funds will not be allocated to this project in 2018 as OSMP pilots implementation through other integrated CIP buckets including Major Trail Maintenance and Ecological Restoration. Out-year funding remains in this project pending the results of that pilot and progress towards WTSA implementation.

Public Process

Implementation projects are identified priorities of the West Trail Study Area Plan, which went through a lengthy public involvement process. However, the Flagstaff Trail re-route and next steps of the NIST project may require additional public process including outreach to interested community members and OSBT.

DET/Impact Fees

N/A for this project.

Interdepartmental and Interagency Collaboration

Depending on which alternative is pursued for the Flagstaff trail project, additional collaboration with city transportation may be needed. In any scenario, collaboration with Boulder County Transportation will be required.

Change From Past CIP

Funding adjusted in out years based on implementation status

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Open Space	\$206,680	\$416,122	\$0	\$150,000	\$150,000	\$150,000	\$100,000	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,172,802

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Additional Annual O&M Description:

Trail repairs and reroutes will reduce ongoing O&M

Funding Source for O&M:

PARKS AND RECREATION

OVERVIEW OF DEPARTMENT MISSIONS / GOALS

In 2014, City Council adopted the Boulder Parks and Recreation Master Plan and guiding principles that provide a focused mission statement to promote the health and well-being of the entire Boulder community by collaboratively providing high-quality parks, facilities and programs. This plan reflected over two years of public input as to the future of the urban park system and identified six core themes to implement the community vision. They include: enhancing community health & wellness; taking care of what we have; financial sustainability; building community; youth engagement; and organizational readiness. In addition, the department is continuing to implement an Asset Management Program to understand existing conditions on \$215 million assets and reduce backlog of deferred maintenance to lower overall facility condition index (FCI) to an industry standard. In 2017 the department continues implementation of the Asset Management Program, planning projects for construction in 2018 and working with expanded partnership development with agencies like Boulder Valley School District and non-profits such as the PLAY Foundation to secure capital funding for enhancements and new facilities. Click [here](#) to see the department's master plan.

FUNDING OVERVIEW

Parks and Recreation has multiple funds that allow implementation of capital projects each year. These funds are described in more detail below and come from a variety of sources to support the department's need to ensure parks and facilities are in good condition and continue to serve the community.

Community, Culture and Safety Tax: In 2014, voters approved the short term sales tax increase to provide capital funding for a variety of projects for the community. Parks and Recreation continues to manage the Civic Area Park project that was funded for \$8.7M to provide the initial transformation of the Civic heart of Boulder. Based on the Civic Area Master Plan, this project will redevelop this unique space in downtown Boulder to provide for a range of amenities and activities.

.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 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 and 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.

PARKS AND RECREATION

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

The department will continue to focus on the key themes identified in the department master plan including:

- Community Health and Wellness - facilities are being improved with upgrades to Scott Carpenter Pool and expansion of outdoor fitness and athletic facilities as the results of recent plans and studies.
- Taking Care of Existing Facilities - through implementation of the Asset Management Software and increase in funding for playgrounds, turf and irrigation, court resurfacing and park structures to extend the useful life of priority facilities and increase the condition of many assets.
- Building Community Relationships - through improvements to the Civic Area, many opportunities exist to enhance the gathering spaces and activation areas to invite all members of the community to enjoy this unique public space in downtown Boulder.
- Youth Activity and Engagement - many youth sports facilities and play areas will be enhanced and renovated through the 2018 CIP projects that will continue to allow the department to focus on youth and provide opportunities for children in the community.



Improvements being made to Scott Carpenter Pool

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*

Project	2017	2018	2019
Boulder Reservoir South Shore	Design	Construction	Completion
Scott Carpenter Pool Redevelopment	Design	Construction	Completion
Neighborhood and Community Park Improvements	Construction	Completion	Design
Civic Area Park Improvements	Construction	Completion	
Aquatic Facility Enhancements			Design
Valmont City Park Development			Design
Boulder Junction Park	Design	Construction	

*This table does not include all the projects in the CIP, see fund summary and projects sheets for the full list of projects.

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

BOARD ACTION

The Parks and Recreation Board (PRAB) unanimously approved the following two resolutions in support of the BPRD 2018-2023 CIP at the June, 2017 meeting: a motion to approve the 2018 recommended expenditures from the Permanent Parks and Recreation Fund and a motion to approve the recommended 2018 – 2023 Parks and Recreation Department Capital Improvement Program (CIP).

PARKS AND RECREATION

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
PARKS AND RECREATION	\$ 38,004,600	\$ 13,304,600	\$ 4,250,000	\$ 7,000,000	\$ 4,250,000	\$ 5,000,000	\$ 4,200,000
CIP-CAPITAL ENHANCEMENT	\$ 21,854,600	\$ 9,204,600	\$ 3,250,000	\$ 1,250,000	\$ 3,150,000	\$ 3,000,000	\$ 2,000,000
Aquatic Facility Enhancements	2,841,000	81,000	2,250,000	-	510,000	-	-
Athletic Field Improvements	2,000,000	100,000	-	250,000	650,000	1,000,000	-
Neighborhood & Community Park Improvement	8,490,000	500,000	1,000,000	1,000,000	1,990,000	2,000,000	2,000,000
Scott Carpenter Pool Redevelopment	8,523,600	8,523,600	-	-	-	-	-
CIP-CAPITAL MAINTENANCE	\$ 10,350,000	\$ 3,750,000	\$ 1,000,000	\$ 500,000	\$ 1,100,000	\$ 2,000,000	\$ 2,000,000
Boulder Reservoir South Shore	4,400,000	3,400,000	-	-	-	-	1,000,000
Flatiron Golf Course Repairs	600,000	-	-	-	600,000	-	-
Recreation Facility Repairs	2,500,000	-	500,000	-	-	1,500,000	500,000
Urban Forest Management	2,850,000	350,000	500,000	500,000	500,000	500,000	500,000
CIP-CAPITAL PLANNING STUDIES	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -
BPR Master Plan Update	250,000	-	-	250,000	-	-	-
CIP-NEW FACILITY/INFRASTRUCTUR	\$ 5,550,000	\$ 350,000	\$ -	\$ 5,000,000	\$ -	\$ -	\$ 200,000
Boulder Junction Pocket Park	350,000	350,000	-	-	-	-	-
New Neighborhood Park Development	200,000	-	-	-	-	-	200,000
Valmont City Park Development	5,000,000	-	-	5,000,000	-	-	-



Children cut the ribbon to celebrate the completion of the new Civic Area bridge

PARKS AND RECREATION

Project Name: Aquatic Facility Enhancements

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PARKS & RECREATION

Project Number: 5152185510

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status: N/A

Project Description

Based upon recommendations of the 2015 Boulder Aquatics Feasibility Plan, this project provides implementation of priority indoor and outdoor pool enhancements for Boulder's aquatics programs. In 2018, all of the indoor hot tubs will be repaired to meet lifecycle preventative maintenance. In 2019, the East Boulder Community Center pools will be renovated and improved in partnership with Facilities and Asset Management (FAM) funding necessary repairs concurrently. In 2021, improvements are considered for the outdoor Spruce Pool and the indoor South Boulder Recreation Center pool to provide water play features for children and youth.

Project Phasing

Depending upon the exact scope of each project, the process will begin with design that includes public involvement as applicable followed by permitting, bidding and construction. The construction projects will be scheduled to disrupt the community use of the pools as minimally as possible.

Public Process

A full public engagement process was completed as part of the department's Aquatics Facility plan. As projects are ready for construction additional community engagement will be done for pool improvement projects that receive upgrades and improvements.

DET/Impact Fees

N/A

Interdepartmental and Interagency Collaboration

Projects are coordinated with FAM for upgrades and project management tasks

Change From Past CIP

Updated Budget Amounts and Schedule For Projects

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
.25 Cent Sales Tax	\$0	\$0	\$81,000	\$0	\$0	\$510,000	\$0	\$0
Permanent Parks & Recreation	\$0	\$0	\$0	\$2,250,000	\$0	\$0	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$2,841,000

Additional Annual Operating and Maintenance

Additional Annual O&M: None

Funding Source for O&M:

Additional Annual O&M Description:

Existing funding is in place as part of budget

PARKS AND RECREATION

Project Name: Athletic Field Improvements

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PARKS & RECREATION

Project Number: 5153302060

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: AREA I

CEAP Status: N/A

Project Description

As recommended in the department's master plan and the subsequent Athletic Field Study, staff will improve existing athletic fields and sports complexes through annual capital enhancements and renovations. Most of the improvements relate to irrigation and turf renovation, replacement of sports field amenities and expanding fields. This project also aims to replace some targeted existing turf fields with new synthetic turf in select park sites. The upgrade of existing natural grass fields and the conversion of select 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 benefits 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 Stazio Complex, 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 and Athletic Field Study 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.

Project Phasing

Improvements are based on the annual asset management program and identified work at each sports field based on conditions and criticality. The project scoping is determined, designed and implemented on an annual basis.

Public Process

For any projects involving major renovation, expansion or development of fields, the community is involved in the planning and design to ensure best practices and needs are met.

DET/Impact Fees

N/A

Interdepartmental and Interagency Collaboration

Depending upon the final project scope, staff coordinate with multiple city departments within Public Works and Planning. Additional state and local agencies are involved as necessary.

Change From Past CIP

Updated Budget Amounts

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Permanent Parks & Recreation	\$187,221	\$223,000	\$100,000	\$0	\$250,000	\$650,000	\$1,000,000	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$2,410,221

Additional Annual Operating and Maintenance

Additional Annual O&M: None

Funding Source for O&M:

Additional Annual O&M Description:

Existing funding is in place as part of budget

PARKS AND RECREATION

Project Name: Boulder Junction Pocket Park

Project at a Glance

Project Type: CIP-NEW FACILITY/INFRASTRUCTUR

Department: PARKS & RECREATION

Project Number: 5153501100

CEAP Required: No

Subcommunity: CROSSROADS

BVCP Area: AREA I

CEAP Status:

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 project will include land acquisition for a 3/4-acre civic park, construction of Goose Creek multi-use path connection, grading and drainage improvements, hard-scape pavers, retaining walls, landscape, irrigation and civic park amenities to support the park space.

Project Phasing

Design will continue through 2017 with final permitting and bidding in early 2018. The project is anticipated to be complete by early 2019.

Public Process

Throughout the project planning, the community and various stakeholders will be engaged in the process to provide input and feedback on plan alternatives to shape the final design.

DET/Impact Fees

Boulder Junction Fund

Interdepartmental and Interagency Collaboration

All aspects of the project will be coordinated with various departments within Public Works including transportation, utilities and FAM. Various state and local agencies will be involved as necessary depending on the final scope of the project.

Change From Past CIP

Updated Schedule

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Bldr Junction Cap Imprvmt	\$501,053	\$350,000	\$350,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$1,201,053

Additional Annual Operating and Maintenance

Additional Annual O&M: \$3,266

Funding Source for O&M:

Additional Annual O&M Description:

Annual maintenance will include irrigation, mowing, and maintenance.

PARKS AND RECREATION

Project Name: Boulder Reservoir South Shore

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	AREA III
Department:	PARKS & RECREATION	BVCP Area:	AREA III
Project Number:	5153305020	CEAP Status:	Complete
CEAP Required:	Yes		

Project Description

Building upon the 2012 Master Plan, this project will continue the implementation of key improvements to the south shore beach area and redevelopment of the visitor services center to provide restrooms, administrative offices, concessions area and various visitor amenities to the beach area. Funding is also planned in 2023 to continue key enhancement priorities that will be determined through a site management plan that is currently underway.

Project Phasing

Final design will be complete in 2017 with permitting and bidding to occur in early 2018. Immediately following the busy summer season in 2018, the project will proceed to construction with completion anticipated in summer of 2019.

Public Process

The community was involved in developing the concept plan for the new beach amenities and the Visitor Service Center with support from the Parks and Recreation Advisory Board (PRAB). Staff will continue to update the community and PRAB as the project proceeds to final design and during construction.

DET/Impact Fees

N/A

Interdepartmental and Interagency Collaboration

Projects are coordinated with FAM and Public Works for upgrades to infrastructure and with Fire Department for coordination of access and public safety.

Change From Past CIP

Updated Budget and Schedule

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
.25 Cent Sales Tax	\$0	\$0	\$600,000	\$0	\$0	\$0	\$0	\$0
Permanent Parks & Recreation	\$0	\$400,000	\$2,800,000	\$0	\$0	\$0	\$0	\$1,000,000
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$4,800,000

Additional Annual Operating and Maintenance

Additional Annual O&M: No net increase or decrease in O&M

Funding Source for O&M:

Additional Annual O&M Description:

Existing funding is in place as part of budget

PARKS AND RECREATION

Project Name: BPR Master Plan Update

Project at a Glance

Project Type: CIP-CAPITAL PLANNING STUDIES

Department: PARKS & RECREATION

Project Number: 5153300500

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status: n/a

Project Description

This project will provide a comprehensive update to the department's master plan that was last updated in 2014. The department has a goal of reviewing and updating the plan on a 5 year cycle to ensure the department services, programs and facilities are delivered to the community based on the best available data and community needs. This project will provide rigorous community involvement, background data collection, needs assessment and a prioritized implementation schedule with goals, objectives and policy recommendations.

Project Phasing

The planning process will begin in 2020 and continue for approximately one year.

Public Process

The master plan process will include an exhaustive public engagement component to involve the community in a variety of opportunities and innovations to ensure everyone has a voice to share input and feedback. The Parks and Recreation Advisory Board and City Council will ultimately have the final opportunity to review and consider the plan for approval.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

This project will involve virtually every department within the city organization as staff works with the inter-departmental master plan coordination group. External stakeholders will also be engaged to determine efficiencies and opportunities for partnership with allied service providers.

Change From Past CIP

Updated

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Permanent Parks & Recreation	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$250,000

Additional Annual Operating and Maintenance

Additional Annual O&M: No direct impact on O&M

Funding Source for O&M:

Additional Annual O&M Description:

PARKS AND RECREATION

Project Name: Flatiron Golf Course Repairs

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SOUTHEAST BOULDER
Department:	PARKS & RECREATION	BVCP Area:	AREA I
Project Number:	5153304150	CEAP Status:	
CEAP Required:	No		

Project Description

The Flatirons Golf Course is the city's only course and provides a unique and highly valued service to the region. The department's master plan as well as other supporting plans prioritizes 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, due to the recent removal of the event center and needs to improve the clubhouse, this project will provide funding to begin the repairs and redevelopment of the site in conjunction with additional leveraged funding sources. This project also allows the golf course to remain competitive in a growing market.

Project Phasing

The final project scope will be determined followed by the design and permitting process. Implementation will occur within the same year and be complete in time for the spring season.

Public Process

The community and patrons will be engaged throughout all phases of design and implementation to provide input on priorities and options. Projects will be scheduled to limit disruption to golfers and maintain playability of the course as much as possible.

DET/Impact Fees

N/A

Interdepartmental and Interagency Collaboration

This work will be coordinated with other departments as needed.

Change From Past CIP

Updated Budget and Schedule

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Permanent Parks & Recreation	\$245,609	\$105,000	\$0	\$0	\$0	\$600,000	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$950,609

Additional Annual Operating and Maintenance

Additional Annual O&M:	None	Funding Source for O&M:
Additional Annual O&M Description:		

PARKS AND RECREATION

Project Name: Neighborhood and Community Park Imp

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT		
Department:	PARKS & RECREATION	Subcommunity:	SYSTEM-WIDE
Project Number:	5152182110	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

Project Description

Boulder's urban park system is foundational to the mission of the Parks and Recreation Department. Upon completion of the department's master plan in 2014, the department committed to ongoing park system renovations/repairs based on priority needs and asset management for all outdoor facilities. This combines individual funding for playgrounds, parking lots, shelters, courts and ADA. The specific 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. Recent park renovations have included Tantra Park, Arapahoe Ridge Park, Christensen Park and Crestview Park. Future projects include Parkside Park, Meadow Glen Park and Martin Park.

Project Phasing

Each year, the department prioritizes the assets that need replacement or renovation based the condition and criticality of the asset. The first phase includes the design process with public involvement, then permitting and project bidding. Projects are bundled for construction to realize an economy of scale.

Public Process

The community will be involved throughout the planning and design phase of the project to assist in determining final design of park amenities and improvements. The Parks and Recreation Advisory Board is also involved throughout the public process.

DET/Impact Fees

N/A

Interdepartmental and Interagency Collaboration

Staff work closely with all applicable local and state agencies depending upon the scope of the projects and requirements. Most projects include planning and design collaboration among many departments and coordination throughout the construction phase into final completion.

Change From Past CIP

Increased in lottery fund, decreased in .25 cent sales tax fund

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
.25 Cent Sales Tax	\$55,394	\$752,867	\$72,000	\$572,000	\$572,000	\$1,562,000	\$1,572,000	\$1,572,000
Lottery	\$218,276	\$774,533	\$428,000	\$428,000	\$428,000	\$428,000	\$428,000	\$428,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$10,291,070

Additional Annual Operating and Maintenance

Additional Annual O&M:	Replacement of existing assets results in no net increase or decrease	Funding Source for O&M:
Additional Annual O&M Description:	Existing budget includes costs	

PARKS AND RECREATION

Project Name: New Neighborhood Park Development

Project at a Glance

Project Type:	CIP-NEW FACILITY/INFRASTRUCTUR		
Department:	PARKS & RECREATION	Subcommunity:	NORTH BOULDER
Project Number:	5152102500	BVCP Area:	AREA I
CEAP Required:	Yes	CEAP Status:	Not yet started

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.

Project Phasing

This is a new neighborhood park that will include an initial planning phase with community involvement. The next phase will include final design and permitting followed by the final phase providing the construction of the new park. This process typically takes 18 to 24 months for a new park.

Public Process

The neighborhood will be involved in the design process of the park by reviewing design options and providing feedback to develop a preferred alternative. The preferred alternative will be presented to the Parks and Recreation Advisory Board for review and consideration for approval.

DET/Impact Fees

This is a new park development to serve neighborhoods that don't currently have adjacent park land. Impact fees will fund the park development as this is meeting needs for park land.

Interdepartmental and Interagency Collaboration

Staff will coordinate with a variety of local, regional and state agencies as necessary to complete the project. The project will involve careful coordination with Public Works staff related to the greenway components and flood mitigation.

Change From Past CIP

Funding Amount and Year

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Capital Development	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000
							Funding to Completion \$0	
							Future Unfunded \$0	

Total Funding Plan: \$200,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$3,266 per acre. Total amount dependent upon final acreage	Funding Source for O&M:
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Additional Annual O&M Description:
This is a new park that will require O&M

PARKS AND RECREATION

Project Name: Recreation Facility Repairs

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PARKS & RECREATION

Project Number: 5152186150

CEAP Required: No

Subcommunity: NORTH BOULDER

BVCP Area: AREA I

CEAP Status:

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 2016, 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.

Project Phasing

The department is undertaking a comprehensive analysis of all major recreation facilities including building condition assessments and programming needs in 2016. Design for major upgrades identified in this study will be programmed in appropriate years.

Public Process

Public process will be conducted as part of the Recreation Facility Plan with additional public outreach prior to individual facility upgrades being implemented.

DET/Impact Fees

N/A

Interdepartmental and Interagency Collaboration

Projects are coordinated with FAM for overall building facility condition assessments as well as with Human Services as part of their overall master plan for facilities.

Change From Past CIP

No Change

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
.25 Cent Sales Tax	\$0	\$0	\$0	\$500,000	\$0	\$0	\$1,500,000	\$500,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$2,500,000

Additional Annual Operating and Maintenance

Additional Annual O&M: None

Funding Source for O&M:

Additional Annual O&M Description:

Existing funding is in place as part of budget

PARKS AND RECREATION

Project Name: Scott Carpenter Pool Redevelopment

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT		
Department:	PARKS & RECREATION	Subcommunity:	CROSSROADS
Project Number:	5152184500	BVCP Area:	AREA I
CEAP Required:	Yes	CEAP Status:	Complete

Project Description

Based on the outcomes of the Aquatics Feasibility Plan, the replacement of Scott Carpenter Pool is necessary based on the lifecycle analysis indicating many deficiencies that need to be addressed. This also allows the opportunity to address the increased demand for lap swimming in the community. This project will replace and enhance the Scott Carpenter pool and associated amenities. The project will also provide leisure aquatic features for families including a lazy river, slides and a zero depth entry pool. The existing bathhouse will be renovated and expanded to support the new amenities and allow for a variety of programs. The pool will be expanded to a 50-meter 10 lane pool (expanded from 6 lanes due to growth in demand and increase in use observed in the recent planning study).

Project Phasing

Final design will be completed in 2017 with permitting and bidding to occur in early 2018. To not impact the summer season, construction will begin immediately after the pool closes around Labor Day in 2018 and anticipate construction to be complete in summer 2019.

Public Process

The design of the project is based upon the goals of the Aquatic Feasibility Plan and needs identified from the community. The approved Concept Plan for the site was developed with rigorous public involvement from many groups and supported by the Parks and Recreation Advisory Board.

DET/Impact Fees

Providing a larger pool and many new amenities will allow the project to accommodate increased demand for lap swimming and support growth in the community's need for aquatics facilities. Given this, impact fees will support a portion of the funding for the project.

Interdepartmental and Interagency Collaboration

Staff will continue to coordinate with all applicable city departments including FAM, Transportation, Utilities and planning related to the various aspects of the project. Once the final design is developed, all plans will be reviewed for permitting and code compliance. Various state and local agencies will also be consulted with as necessary given the scope of the project.

Change From Past CIP

Updated Budget and Schedule

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
.25 Cent Sales Tax	\$0	\$676,400	\$3,223,600	\$0	\$0	\$0	\$0	\$0
Capital Development	\$0	\$0	\$5,300,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$3,900,000

Additional Annual Operating and Maintenance

Additional Annual O&M: Approximately \$400K

Funding Source for O&M:

Additional Annual O&M Description:

Increased size of pool and new amenities

PARKS AND RECREATION

Project Name: Urban Forest Management

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	PARKS & RECREATION	Subcommunity:	SYSTEM-WIDE
Project Number:	5152183100	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	

Project Description

Trees are important assets to the community and provide many benefits to Boulder. In September 2013, Forestry staff discovered an Emerald Ash Borer (EAB) infestation within the city. The subsequent delimitation survey showed that EAB was 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 September of 2015, an Information Item detailing the Emerald Ash Borer management plan was presented to City Council.

As a result of the recent discovery of the Emerald Ash Borer (EAB), a response plan has been developed 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 will provide funding to educate the community on safe EAB treatment, 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.

Project Phasing

Staff inspect and analyze tree health each year and develop annual work plans to manage areas that are in most critical need. Based on the work plans, City crews and contractors perform removals, conduct pruning or plant as necessary.

Public Process

Staff provide education, volunteer opportunities and collaboration with the community annually. Neighbors are notified when trees will be removed and planted and have access to forestry staff to discuss the projects.

DET/Impact Fees

N/A

Interdepartmental and Interagency Collaboration

Forestry staff coordinate with multiple city departments annually to perform forest management ranging from planning to implementation. Many local, regional and state agencies are involved in the ongoing forest management coordination to ensure best practices and industry standards.

Change From Past CIP

Increased funding in out years

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
.25 Cent Sales Tax	\$403,246	\$275,416	\$220,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Permanent Parks &	\$0	\$0	\$130,000	\$0	\$0	\$0	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0
Total Funding Plan:		\$3,528,662						

Additional Annual Operating and Maintenance

Additional Annual O&M:	No net increase or decrease in O&M	Funding Source for O&M:	
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Additional Annual O&M Description:

Annual funds are utilized to remove and replace existing Ash trees

PARKS AND RECREATION

Project Name: Valmont South City Park Development

Project at a Glance

Project Type: CIP-NEW FACILITY/INFRASTRUCTUR
Department: PARKS & RECREATION
Project Number: 5152183510
CEAP Required:

Subcommunity:
BVCP Area:
CEAP Status:

Project Description

Based upon the 2015 Concept Plan for Valmont City Park, this project will provide the development of the park areas south of Valmont Road to meet the needs of the growing community and fulfill commitments of the Parks and Recreation Master Plan for levels of service related to east Boulder and the adjacent neighborhoods. Pending final design and funding availability, key improvements may include innovative children's play areas, adventure-themed active recreation areas, community event spaces, local food opportunities, disc golf expansion and large picnic areas.

Project Phasing

The initial phase will include planning and public involvement to determine final design of the improvements. Some Prairie Dog relocation might need to occur based upon the final design. Project permitting and bidding will then allow the construction to proceed. This process will likely take 18 to 24 months.

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
.25 Cent Sales Tax	\$60,217	\$0	\$0	\$0	\$3,000,000	\$0	\$0	\$0
Permanent Parks & Recreation	\$4,093	\$0	\$0	\$0	\$2,000,000	\$0	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0
Total Funding Plan:		\$5,064,310						

Additional Annual Operating and Maintenance

Additional Annual O&M:
Additional Annual O&M Description:

Funding Source for O&M:

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POLICE

OVERVIEW OF DEPARTMENT MISSION

The Boulder Police Department's (BPD) mission is partnering with the community to provide service and safety. The mission entails a full range of services which includes but is not limited to crime prevention, enforcement, security, investigations, management of public disorder and quality of life issues, emergency and disaster response, and training. Public safety and crime prevention are the department's top priorities. Through community-oriented policing, the BPD believes in building partnerships with the community to work on solving crime and crime-related problems. Click [here](#) to access the boulder Police Department Master Plan. Click [here](#) to access all master plans for the City of Boulder.

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

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

The Police Department CIP is likely contingent on renewal of the capital improvement sales tax, to be considered by Boulder voters in November 2017. Of highest priority is replacement of the city's radio infrastructure, currently proposed for \$6.5 million in funding if the capital tax is renewed. A new state of the art system would serve citywide needs including police and fire, but also Open Space and Mountain Parks, and Public Works and would provide compatibility with other agencies and partners in large scale disasters. The project includes replacement of the department's Incident Command Vehicle which is used by both Police and Fire as a resource during large events and disasters. Given the priority of this project, should the Capital Improvement Sales Tax Renewal not pass, adjustments to budgets will need to occur to secure funds to implement this project.

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*	
2017	2018
Radio Infrastructure Study	
Records Management System (RMS)	
Installation of secure entry/exit gates at the Public Safety Building	
	Radio Infrastructure Replacement (pending funding)

POLICE

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

BOARD ACTION

The Police Department does not have an advisory board.

TRANSPORTATION

OVERVIEW OF DEPARTMENT MISSIONS / GOALS

The city's transportation budget is formulated within the policy context of the Transportation Master Plan (TMP) and is based on implementing a balanced, sustainable, multi-modal transportation system. The TMP recommends that the city prioritize investments in the transportation system in accordance with the four following priorities:

- Adequately preserve the existing infrastructure;
- Strive to increase safety;
- Maximize the efficiency of our existing system (roadway, transit, bicycle, and pedestrian); and
- Enhance mobility through investments in the completion of the multimodal system (pedestrian, bicycle, and transit).

FUNDING OVERVIEW

An update to the Transportation Master Plan was completed in 2014. The plan update affirmed policy direction and sets the course for Capital Improvements Program (CIP) investments. The CIP reflects transportation infrastructure investment taking place through four separate funds:

- Airport Fund
- Transportation Fund
- Transportation Development Fund
- Boulder Junction Improvement Fund

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: .6% dedicated sales tax, Highway Users Tax, County Road and Bridge funds, State Highway Maintenance and Landscape Funds, and federal grant funds. In November of 2013, Boulder voters passed two tax initiatives that increase the transportation fund by .15% dedicated sales tax annually for 16 years.

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. Funding for the Transportation Development Fund is provided primarily through the transportation excise tax (TET) revenues and a new transportation impact fee established in 2017. The TET was instituted in the 1980s to fund transportation improvements related to growth and is paid by commercial and residential development. The new transportation impact fee was enacted by City Council in early 2017 and went into effect on July 1, 2017. The purpose of the additional impact fee is make additional investments in the transportation system caused by increased demands related to 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

TRANSPORTATION

Boulder Junction that will be reinvested into Key Public Improvements in this area. Because all the Boulder Junction Phase 1 Key Public Transportation Improvements have been either funded or implemented, there is no further funding identified at this time. Future opportunities for infrastructure investment may arise as re-development and build-out of the Boulder Junction sub-area occurs.

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

The projects in the capital improvement program are selected and developed to implement TMP priorities identified in the 2014 TMP Update. The 2014 TMP Update prioritized a system of “complete street” corridors in the city for strategic investment and completion including Arapahoe Avenue, Canyon Boulevard, 30th Street and Colorado Avenue. Complete streets not only include the street envelope but also facilities for the associated ¼ mile travel shed on either side of the corridor.



Community members gather to celebrate the completion of the Baseline Underpass

Other key focus areas within the CIP include Safety and Neighborhood Traffic Mitigation. Within the context of the CIP, safety is addressed with the engineering component of Toward Vision Zero (TVZ) safety initiative approved by council for 2017. Each of the CIP projects considers and implements engineering measures that are intended to yield safety benefits for all users of the transportation system. Also by request of City Council, the Neighborhood Traffic Mitigation Program (NTMP) was a renewed focus area for 2017, and in the 2018-2023 CIP, a new Neighborhood Traffic Mitigation Program is being programmed. The NTMP will include continuing development of the program, community engagement process and implementation of projects that are prioritized with the program. Finally, it should be noted that with the city-wide focus on Public Art, each of the Complete Streets capital projects being implemented also incorporate commissioned art in the design and infrastructure, typically at a rate of 1 to 2% (of construction cost), and address and recognize place-making in coordination with land use and zoning and adjacent land owners.

TRANSPORTATION

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*			
Project	2017	2018	2019
30 th /Colorado Corridor Study	Planning/ Design	Completion	
19 th Street (Norwood to Upland)	Design	Design/Construction	Construction
Broadway Reconstruction Violet to US36 (planning since 2015)	Design	Construction	Completion
Railroad Quiet Zone	Design	Construction	
Foothills and Colorado Underpass	Design	Design/ Construction	
Intersection Safety Projects	Design	Design	Construction
30 th & Colorado Bike Ped Underpass	Design	Design/ Construction	Construction

**This table does not include all the projects in the CIP, see fund summary and projects sheets for the full list of projects.*

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

BOARD ACTION

The Transportation Advisory Board (TAB) recommended approval of the draft 2018-2023 Capital Improvement Program on June 12, 2017.

Click [here](#) to access the Transportation Master Plan. Click [here](#) to access the Airport Master Plan. Click [here](#) to access all master plans for the City of Boulder.

TRANSPORTATION

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
PW/TRANSPORTATION	\$ 86,802,789	\$ 15,760,585	\$ 18,866,360	\$ 17,039,464	\$ 11,847,380	\$ 11,744,500	\$ 11,544,500
CIP-CAPITAL ENHANCEMENT	\$ 39,072,260	\$ 9,532,320	\$ 9,746,540	\$ 4,933,020	\$ 5,155,380	\$ 4,852,500	\$ 4,852,500
19th St (Norwood to Sumac)	748,200	421,000	327,200	-	-	-	-
Bldr County/City Joint TIP Projects	151,000	151,000	-	-	-	-	-
Broadway Recon Violet to 36	5,575,000	-	5,575,000	-	-	-	-
Foothills & Colorado Underpass	3,440,000	3,440,000	-	-	-	-	-
Greenways Project - Transportation **	585,000	97,500	97,500	97,500	97,500	97,500	97,500
Intersection Safety Projects	875,880	95,640	396,840	80,520	302,880	-	-
Misc Development Coordination	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Neighborhood Speed Mgmt Program	1,800,000	300,000	300,000	300,000	300,000	300,000	300,000
Pavement Management Program	24,937,180	4,317,180	3,000,000	4,405,000	4,405,000	4,405,000	4,405,000
Railroad Quiet Zone Implementation	660,000	660,000	-	-	-	-	-
CIP-CAPITAL MAINTENANCE	\$ 22,320,529	\$ 3,098,265	\$ 2,639,820	\$ 8,156,444	\$ 2,742,000	\$ 2,942,000	\$ 2,742,000
Deficient Street Light Pole Replace	605,000	-	121,000	121,000	121,000	121,000	121,000
Major Capital Reconstruction	5,301,000	850,500	850,500	900,000	900,000	900,000	900,000
Major Street Reconstruction	2,503,200	411,600	411,600	420,000	420,000	420,000	420,000
Multiuse Path Capital Maintenance	2,496,530	406,265	406,265	421,000	421,000	421,000	421,000
Ped Facilities Repair, Replace, ADA	3,729,970	606,985	606,985	629,000	629,000	629,000	629,000
Rehab Runway & Eastern Taxiway	5,793,889	379,445	-	5,414,444	-	-	-
Sidewalk Maintenance	1,490,940	243,470	243,470	251,000	251,000	251,000	251,000
Signal Maintenance & Upgrade	400,000	200,000	-	-	-	200,000	-
CIP-CAPITAL PLANNING STUDIES	\$ 350,000	\$ 150,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -
TMP Update	350,000	150,000	200,000	-	-	-	-
CIP-NEW FACILITY/INFRASTRUCT	\$ 25,060,000	\$ 2,980,000	\$ 6,280,000	\$ 3,950,000	\$ 3,950,000	\$ 3,950,000	\$ 3,950,000
30th St and Colorado Bike/Ped Under	5,900,000	1,300,000	4,600,000	-	-	-	-
Multiuse Path - Enhancements	1,260,000	180,000	180,000	225,000	225,000	225,000	225,000
Ped Facs Enh Missing Links Crossing	700,000	100,000	100,000	125,000	125,000	125,000	125,000
TIP Local Match/TMP Implementation	17,200,000	1,400,000	1,400,000	3,600,000	3,600,000	3,600,000	3,600,000

TRANSPORTATION

Project Name: 19th St (Norwood to Sumac)

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	NORTH BOULDER
Department:	PW/TRANSPORTATION	BVCP Area:	AREA I
Project Number:	310TR154NG	CEAP Status:	CEAP will begin in late 2017
CEAP Required:	Yes		

Project Description

This project will design and construct sidewalk, curb and gutter improvements along the west and east sides of 19th Street from Norwood Avenue to Sumac Avenue. The project will also provide a bicycle lane and improve ADA facilities in the project area.

We are currently requesting additional funding for this project from CDOT. Project phasing and description will be updated upon receipt of additional funds.

Project Phasing

2016: Planning: \$257,000
 2017: Design/Construction - \$567,000 (\$390,000 from DRCOG TIP funding)
 2018: Construction - \$421,000 (\$244,000 from DRCOG TIP funding)
 2019: Construction - \$327,200 (\$327,200 from DRCOG TIP funding)

Public Process

This project was submitted to TAB and Council as a Transportation Alternatives Program (TAP) project prior to submitting it to CDOT for federal funding. Staff will hold public meetings and meet with adjacent property owners to acquire input for the project.

DET/Impact Fees

This project is not funded with development excise tax.

Interdepartmental and Interagency Collaboration

The project will be coordinated with other city departments, particularly Planning, Housing & Sustainability, as well as Utilities.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$0	\$1,068,000	\$421,000	\$327,200	\$0	\$0	\$0	\$0

Funding to Completion \$0
 Future Unfunded \$0

Total Funding Plan: \$1,816,200

Additional Annual Operating and Maintenance

Additional Annual O&M:	Minimal	Funding Source for O&M:	
Additional Annual O&M Description:	May result in minimal incremental increases in ongoing maintenance		

TRANSPORTATION

Project Name: 30th St and Colorado Bike/Ped Under

Project at a Glance

Project Type:	CIP-NEW FACILITY/INFRASTRUCTUR	Subcommunity:	UNIVERSITY
Department:	PW/TRANSPORTATION	BVCP Area:	AREA I
Project Number:	310TR153NG	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The University of Colorado's development of their East Campus will significantly increase bicycle, pedestrian and transit travel between the main and east campuses including the Colorado Avenue and 30th Street corridors. This connection will join the two campus areas with a safe grade separated crossing/underpass crossing Colorado Avenue and 30th Street. This project is included in the Transportation Master Plan. This project will provide direct access to transit stops serving the STAMPEDE, BOUND and 209 transit services and connect the University neighborhoods with the Park East and other neighborhoods in East Boulder. 30th Street is identified as a Regional Corridor in the DRCOG Regional Bicycle Corridor System. Colorado Avenue is within a 1/4 mile of the identified Boulder Creek Community Corridor of the DRCOG Regional Bicycle Corridor System and fulfills the function of that facility as a connection between the two campuses of the University of Colorado a major regional employer and institution. The final configuration will be determined through the city's public involvement and design analysis process.

Project Phasing

2018: Construction: \$1,300,000
 2019: Construction: \$4,600,000 (\$3,350,000 from DRCOG TIP funding)

Public Process

This project was submitted to TAB and Council as a Transportation Improvement Project (TIP) prior to submitting it to DRCOG for federal funding. Staff will hold public meetings and meet with adjacent property owners to acquire input for the project.

DET/Impact Fees

\$2,000,000 of this project is funded with Transportation Development Excise Tax revenue. These funds are budgeted separately in the Transportation Development Fund.

Interdepartmental and Interagency Collaboration

The project will be coordinated with other city departments, particularly Planning, Housing & Sustainability, as well as Utilities.

Change From Past CIP

Added to CIP in 2017

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$7,409	\$1,592,591	\$0	\$4,600,000	\$0	\$0	\$0	\$0
Transportation Development	\$0	\$700,000	\$1,300,000	\$0	\$0	\$0	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$8,200,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	Yes	Funding Source for O&M:	
Additional Annual O&M Description:	O&M will increase marginally		

TRANSPORTATION

Project Name: Bldr County/City Joint TIP Projects

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/TRANSPORTATION

Project Number: 310TD157NG

CEAP Required: N/A

Subcommunity: GUNBARREL

BVCP Area: AREA I

CEAP Status: N/A

Project Description

In addition to the city Transportation Improvement Plan (TIP) projects, the city is also a funding partner on two Boulder County TIP projects. This funding is identified in the 2016-2021 CIP under the Boulder County/City Joint TIP Projects line item. The total city contribution is \$289,000. The two projects are bike/pedestrian infrastructure improvements:

- 71st St Multi-Use Path (Winchester to Idylwild Trail) - \$151,000
- Williams Fork Trail Multi-Use Path (63rd to Twin Lakes) - \$138,000

Project Phasing

2018 Construction/Acquisition/Planning: \$151,000

Public Process

Public process will be led by Boulder County.

DET/Impact Fees

\$151,000 of funding for this joint project between the City of Boulder and Boulder County will come from Development Excise Tax.

Interdepartmental and Interagency Collaboration

This funding will be used on regionally significant projects that are of benefit to both the city and the county.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation Development	\$0	\$0	\$151,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$151,000

Additional Annual Operating and Maintenance

Additional Annual O&M: N/A

Additional Annual O&M Description:

N/A

Funding Source for O&M:

TRANSPORTATION

Project Name: Broadway Recon Violet to 36

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/TRANSPORTATION

Project Number: 310TR152NG

CEAP Required: No

Subcommunity: NORTH BOULDER

BVCP Area: AREA I

CEAP Status: N/A

Project Description

This section of Broadway is in deteriorated condition but also has high levels of bicycling, walking, vehicular and transit travel. This section of roadway is a gateway to North Boulder and the downtown and there has been a major redevelopment of the area with additional residential and commercial space. It's anticipated that there will be more redevelopment in the future. The "Low Stress" bicycling network evaluation has identified this corridor for bicycling and pedestrian improvements to accommodate a range of bicyclists and ability levels. The proposed improvements will reconstruct the deteriorated pavement condition of the roadway, provide underground utility upgrades and provide additional bicycle, pedestrian and transit improvements to address future travel needs. Connections to adjacent intersecting transportation facilities will be made.

Project Phasing

2016-2018: Planning: \$1,750,000

2019: Acquisition: \$1,250,000 (\$1,000,000 from DRCOG TIP funds)

2019: Construction: \$5,575,000 (\$3,825,000 from DRCOG TIP funds)

Public Process

This project was submitted to TAB and Council as a Transportation Improvement Project (TIP) prior to submitting it to DRCOG for federal funding. Staff will hold public meetings and meet with adjacent property owners to acquire input for the project.

DET/Impact Fees

This project is not funded by Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

The project will be coordinated with other city departments, particularly P&DS as well as Utilities and Greenways.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$396,911	\$2,603,089	\$0	\$5,575,000	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$8,575,000

Additional Annual Operating and Maintenance

Additional Annual O&M: No

Additional Annual O&M Description:

N/A

Funding Source for O&M:

TRANSPORTATION

Project Name: Deficient Street Light Pole Replace

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	PW/TRANSPORTATION	Subcommunity:	SYSTEM-WIDE
Project Number:	310TR001OC	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	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 that 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.

Project Phasing

2018 - 2023: Construction: \$605,000

Public Process

N/A

DET/Impact Fees

The Deficient Street Light Pole Replacement program is not funded by Development Excise Tax.

Interdepartmental and Interagency Collaboration

N/A

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$252,175	\$743,825	\$0	\$121,000	\$121,000	\$121,000	\$121,000	\$121,000
							Funding to Completion \$0	
							Future Unfunded \$0	

Total Funding Plan: \$1,601,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	N/A	Funding Source for O&M:
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Additional Annual O&M Description:

Funding will repair existing poles, lessening on-going costs

TRANSPORTATION

Project Name: Foothills & Colorado Underpass

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	CROSSROADS
Department:	PW/TRANSPORTATION	BVCP Area:	AREA I
Project Number:	310TR160NG	CEAP Status:	CEAP will begin in late 2017
CEAP Required:	Yes		

Project Description

There is an existing bicycle/pedestrian overpass bridge just south of Colorado Avenue on Foothills Parkway/SH157. The overpass bridge was constructed and is maintained by CDOT and is in deteriorating condition with steep slopes. The overpass bridge does not meet other prevailing bicycle design or ADA design guidelines. This crossing facility acts as a barrier, rather than a connection between East Boulder and Central Boulder and the parks, businesses, academic and residential areas on either side of Foothills Parkway. The City of Boulder and the University of Colorado Boulder have been working together on the East Campus Master Plan Transportation Connections Plan. This project is included in the City of Boulder Transportation Master Plan. This project will construct a bicycle/pedestrian underpass, providing a grade separated crossing of Foothills Parkway/SH157 that is ADA compliant. The project will provide wayfinding/signage features, 20 bicycle parking spaces and connections to existing bicycle and pedestrian facilities on either side of the crossing.

Project Phasing

2017: Design - \$960,000 (\$560,000 from DRCOG TIP funding)
 2018: Construction - \$3,440,000 (\$2,640,000 from DRCOG TIP funding)

Public Process

This project was submitted to TAB and Council as a Transportation Improvement Project (TIP) prior to submitting it to DRCOG for federal funding. Staff will hold public meetings and meet with adjacent property owner to acquire input for the project.

DET/Impact Fees

The Foothills and Colorado Underpass project is not funded by Development Excise Tax.

Interdepartmental and Interagency Collaboration

The project will be coordinated with CDOT, other city departments and divisions, University of Colorado and the nearby 30th and Colorado Corridor Study.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$2,985	\$957,015	\$3,440,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
 Future Unfunded \$0

Total Funding Plan: \$4,400,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	Yes	Funding Source for O&M:	
Additional Annual O&M Description:	MUP Maint. will budget for O&M maintenance		

TRANSPORTATION

Project Name: Intersection Safety Projects

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SYSTEM-WIDE
Department:	PW/TRANSPORTATION	BVCP Area:	AREA I
Project Number:	310TR191NC	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The Intersection Safety Projects are funded almost entirely by a grant from the Highway Safety Improvement Program (HSIP), a federal grant program for local communities to improve safety at high hazard locations. The City is a recipient of HSIP grant funds to implement safety mitigation treatments at three intersections around the City. These intersection locations are Colorado/Regent, Baseline/29th and Broadway/Rayleigh. The safety treatments to be installed at all three locations will improve safety for vehicles, bicycles and pedestrians.

Project Phasing

Construction 2018-2021 - \$875,880

Public Process

As designs for safety treatments at each intersection are developed, one-on-one meetings will be held with affected stakeholders, and an open house will be held to provide an overview of the project need and purpose, along with schedule and impacts.

DET/Impact Fees

No development excise tax will be used for this project.

Interdepartmental and Interagency Collaboration

This project will entail coordination with other departments and divisions including Utilities; Planning, Housing & Sustainability; and Parks and Recreation. Coordination will also take place with other major governmental entities such as the University of Colorado and the Colorado Department of Transportation.

Change From Past CIP

No change

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$0	\$0	\$95,640	\$396,840	\$80,520	\$302,880	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$875,880

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:
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Additional Annual O&M Description:

N/A

TRANSPORTATION

Project Name: Major Capital Reconstruction

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	PW/TRANSPORTATION	Subcommunity:	SYSTEM-WIDE
Project Number:	310TR0030C	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

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 the city's existing transportation assets. This project will allow major assets to be replaced or repaired and the specific project identification process and prioritization started with the initial funding year of 2015.

A portion of the 2015 budget, the first year of funding this category, was 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 substandard 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 rise.

Project Phasing

2018-2023: Construction: \$5,301,000

Public Process

Public 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.

DET/Impact Fees

The Major Capital Reconstruction program is not funded with Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

Transportation will coordinate with the Utilities Department on upgrades, modifications or improvements to existing utilities as identified in each project; Planning, Housing and Sustainability to coordinate with any adjacent planned development; and other impacted departments and agencies depending on the location of the repairs, such as the Parks Department, Greenways, Community Vitality, the University of Colorado or the Colorado Department of Transportation (CDOT) if the project exists on their property or adjacent to their property.

Change From Past CIP

Added to CIP in 2017

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$870,456	\$1,429,544	\$850,500	\$850,500	\$900,000	\$900,000	\$900,000	\$900,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$7,601,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	N/A	Funding Source for O&M:
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Additional Annual O&M Description:

Repair of existing assets will reduce on-going maintenance costs

TRANSPORTATION

Project Name: Major Street Reconstruction

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	PW/TRANSPORTATION	Subcommunity:	SYSTEM-WIDE
Project Number:	310TR10050	BVCP Area:	AREA I
CEAP Required:	No	CEAP Status:	N/A

Project Description

The City of Boulder's budget priorities for transportation funding are the safety and preservation of the transportation system, including maintaining all streets in a good and safe condition. The Transportation Division has established a Pavement Management Program (PMP) for Boulder's 300-mile street system, which includes inspecting and rating all streets on a three-year interval to maintain awareness of existing conditions and guide where pavement repairs will be made in future years. Occasionally, some streets reach a state in which lower cost maintenance activities will no longer extend the useful service life of the street and it becomes necessary to completely reconstruct the street.

The purpose of the Major Street Reconstruction budget is to target the worst performing pavement conditions and completely reconstruct not only the full pavement section, but also the sub-grade to make sure that the new pavement surface will provide a quality ride and condition for many years.

Project Phasing

2018-2023: Construction - \$2,503,200

Public Process

Public 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.

DET/Impact Fees

Major Street Reconstruction is not funded by Development Excise Tax.

Interdepartmental and Interagency Collaboration

Transportation will coordinate with the Utilities Department on upgrades, modifications or improvements to existing utilities as identified in each project; Planning, Housing and Sustainability to coordinate with any adjacent planned development; and other impacted departments and agencies depending on the location of the repairs, such as the Parks Department, Greenways, Community Vitality, CU or CDOT if the project exists on their property or adjacent to their property.

Change From Past CIP

Added in 2017 CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$0	\$384,000	\$411,600	\$411,600	\$420,000	\$420,000	\$420,000	\$420,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$2,887,200

Additional Annual Operating and Maintenance

Additional Annual O&M: Reduced

Funding Source for O&M:

Additional Annual O&M Description:

Repair of existing assets will reduce on-going maintenance costs.

TRANSPORTATION

Project Name: Misc Development Coordination

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SYSTEM-WIDE
Department:	PW/TRANSPORTATION	BVCP Area:	SYSTEM-WIDE
Project Number:	310TD004OC	CEAP Status:	N/A
CEAP Required:	No		

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 2017 and 2018, 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.

Project Phasing

2018-2023: Planning/Construction - \$300,000 (\$50,000 annually)

Public Process

Projects generally require coordination with adjacent neighborhoods and property owners.

DET/Impact Fees

The Miscellaneous Development Coordination program is funded by Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

Close coordination with the Development Review work group and Planning, Housing and Sustainability is required as this money is to fund improvements or connections adjacent to or required by development that are not the responsibility of the developer.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation Development	\$23,745	\$123,745	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$447,490

Additional Annual Operating and Maintenance

Additional Annual O&M:	Minimal	Funding Source for O&M:
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Additional Annual O&M Description:

May result in minimal incremental increases in ongoing maintenance

TRANSPORTATION

Project Name: Multiuse Path Capital Maintenance

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	PW/TRANSPORTATION	BVCP Area:	AREA I
Project Number:	310TR10040	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The City of Boulder's budget priorities for transportation funding are the safety and preservation of the transportation system, including maintaining all multi-modal corridors in a good and safe condition. The Transportation Division is charged with providing major maintenance to the off-street multi-use path network. This budget addresses activities such as replacing panels of concrete, flood proofing underpasses and re-decking pedestrian overpasses.

Project Phasing

2018-2023: Construction - \$2,496,530

Public Process

Public 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.

DET/Impact Fees

Multiuse Path Capital Maintenance is not funded by Development Excise Tax.

Interdepartmental and Interagency Collaboration

Transportation will coordinate with the Utilities Department on upgrades, modifications or improvements to existing utilities as identified in each project; Planning, Housing and Sustainability to coordinate with any adjacent planned development; and other impacted departments and agencies depending on the location of the repairs, such as the Parks Department, Greenways, Community Vitality, CU or CDOT if the project exists on their property or adjacent to their property.

Change From Past CIP

Added in 2017 CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$0	\$397,000	\$406,265	\$406,265	\$421,000	\$421,000	\$421,000	\$421,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$2,893,530

Additional Annual Operating and Maintenance

Additional Annual O&M:	Reduced	Funding Source for O&M:
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Additional Annual O&M Description:

Repair of existing assets will reduce on-going maintenance costs.

TRANSPORTATION

Project Name: Multiuse Path - Enhancements

Project at a Glance

Project Type: CIP-NEW FACILITY/INFRASTRUCTUR

Department: PW/TRANSPORTATION

Project Number: 310TR6920C

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status: N/A

Project Description

This funding is an ongoing program for expanding and improving the off-street multiuse path network. The construction of multiuse path facilities is included in almost all other transportation CIP projects. This program provides additional funding for small-scope multiuse path 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 bike, pedestrian, and transit modal plans as well as the TMP, and the projects are prioritized yearly.

In 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 bike park. In further out years, funds will be spent on completing multiuse path connections in the confluence area as well as identifying and constructing improvements to the overall citywide system.

Project Phasing

2018-2023: Construction - \$1,260,000

Public Process

None

DET/Impact Fees

This project is not funded by development excise tax.

Interdepartmental and Interagency Collaboration

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 Department and the Parks Department if a project is on or adjacent to Open Space property or Parks property.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$236,606	\$593,208	\$180,000	\$180,000	\$225,000	\$225,000	\$225,000	\$225,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$2,089,813

Additional Annual Operating and Maintenance

Additional Annual O&M: Yes

Funding Source for O&M:

Additional Annual O&M Description:

Projects may result in marginal additional O&M expenses

TRANSPORTATION

Project Name: Neighborhood Speed Management Progr

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT		
Department:	PW/TRANSPORTATION	Subcommunity:	SYSTEM-WIDE
Project Number:	310TR172OC	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

Project Description

Neighborhood traffic calming efforts are intended to address speeding traffic on residential streets through a combination of education, enforcement and engineering tools.

The City of Boulder has been working on these efforts in various forms and programs since the early 1990s. The original Neighborhood Traffic Mitigation Program was developed by a working group in 1994 and was adopted by City Council in December, 1994. Prior to the development of the (NTMP) in 1994, the City of Boulder installed speed humps through a neighborhood speed hump petition program. City staff operated the NTMP for a little over a year, working on several projects including potential mitigation in the Whittier and Balsam/Edgewood neighborhoods. However, concerns about emergency response issues caused the program to be put on hold in 1996. After considerable process and review, City staff developed a much more robust set of NTMP guidelines to address concerns of impacts to emergency response and adequate public participation and support. These were adopted by City Council in 2000. In 2003, funding for the program and the position was eliminated due to the economy and decreasing city revenues.

During the 2016 City of Boulder Budget Adoption process, the City Council expressed interest in restoring the NTMP or a similar program to provide mitigation to neighborhoods experiencing speeding traffic and directed staff to redesign the program with the community. A budget was appropriated for 2017 to cover the cost of a fixed-term employee to staff this effort.

In February 2017, the City began a process to redesign the NTMP and to include funding of engineering treatments in the program again. Based on feedback from the community, researched traffic mitigation programs from around the country, and existing organizational structure, the project team has drafted the framework and details for the program guidelines for the newly renamed Neighborhood Speed Management program. This will be presented to City Council for their acceptance on August 1, 2017.

This redesigned program for Neighborhood Speed Management program (NSM) uses a combination of education, enforcement and engineering treatments to mitigate the negative effects of speeding traffic on neighborhood streets. The annual funding will be used to staff 1 new FTE position and several education tools such as speed trailers and engineering treatments for simple speed hump projects and the design of 1 complex project to be constructed in 2019.

Project Phasing

2018-2023 Planning/Construction - \$1,800,000 (\$300,000 annually)

Public Process

In 2017, City staff redesigned the program with community input including public meetings, online questionnaires and public hearings.

DET/Impact Fees

This program is not funded by Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

The program will involve staff from the Fire and Police departments as well as staff from the various work groups within the Public Works Department. Individual projects may require coordination with agency partners as well.

Change From Past CIP

There have not been funds allocated to traffic calming since 2003.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$0	\$0	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,800,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	N/A	Funding Source for O&M:
Additional Annual O&M Description:	N/A	

TRANSPORTATION

Project Name: Pavement Management Program

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT		
Department:	PW/TRANSPORTATION	Subcommunity:	SYSTEM-WIDE
Project Number:	310TR10070	BVCP Area:	AREA I
CEAP Required:	N/A	CEAP Status:	N/A

Project Description

The City of Boulder's budget priorities for transportation funding are the safety and preservation of the transportation system, including maintaining all streets in a good and safe condition. The Transportation Division has established a Pavement Management Program (PMP) for Boulder's 300-mile street system, which includes inspecting and rating all streets on a three-year interval to maintain awareness of existing conditions and guide where pavement repairs will be made in future years. The purpose of the Pavement Management Program is to provide the optimal level of funding, timing, and renewal strategies that will keep the citywide street pavement network at or above a "Good" OCI rating. The end result is that the best strategy may be to defer a costly reconstruction on one street in order to complete less expensive treatments on other streets to minimize its deterioration into a more costly type of treatment, such as reconstruction. Street treatments that may take place under this program include mill/overlay, chip-seal, and crack-fill/seal.

Project Phasing

2018-2023: Construction - \$24,937,180

Public Process

Public 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.

DET/Impact Fees

Pavement Management Program is not funded by Development Excise Tax.

Interdepartmental and Interagency Collaboration

Transportation will coordinate with the Utilities Department on upgrades, modifications or improvements to existing utilities as identified in each project; Planning, Housing & Sustainability to coordinate with any adjacent planned development; and other impacted departments and agencies depending on the location of the repairs, such as the Parks Department, Greenways, Community Vitality, CU or CDOT if the project exists on their property or adjacent to their property.

Change From Past CIP

Added in 2017 CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$0	\$4,043,000	\$4,317,180	\$3,000,000	\$4,405,000	\$4,405,000	\$4,405,000	\$4,405,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$28,980,180

Additional Annual Operating and Maintenance

Additional Annual O&M:	Reduced	Funding Source for O&M:
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Additional Annual O&M Description:

Repair of existing assets will reduce on-going maintenance costs.

TRANSPORTATION

Project Name: Ped Facs Enh Missing Links Crossing

Project at a Glance

Project Type:	CIP-NEW FACILITY/INFRASTRUCTUR		
Department:	PW/TRANSPORTATION	Subcommunity:	MULTIPLE SUBCOMMUNITIES
Project Number:	310TR112OC	BVCP Area:	SYSTEM-WIDE
CEAP Required:	No	CEAP Status:	N/A

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. This funding was increased by \$50,000 starting in 2014 due to the passage of the 2013 Transportation Tax.

Project Phasing

2018-2023 Construction: \$700,000

Public Process

The public process for installing missing sidewalk links is ongoing and may involve a process for one or more locations per year. Staff works with neighborhoods and adjacent property owners on individual improvements.

DET/Impact Fees

This project is not funded by Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

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

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$230,797	\$250,154	\$100,000	\$100,000	\$125,000	\$125,000	\$125,000	\$125,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$1,180,950

Additional Annual Operating and Maintenance

Additional Annual O&M:	N/A	Funding Source for O&M:
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Additional Annual O&M Description:

Adjacent property owners are responsible for sidewalk maintenance.

TRANSPORTATION

Project Name: Ped Facilities Repair, Replace, ADA

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	PW/TRANSPORTATION	BVCP Area:	SYSTEM-WIDE
Project Number:	310TR773OC	CEAP Status:	N/A
CEAP Required:	No		

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 (TMP) goal of creating an integrated, multimodal transportation system, emphasizing the role of the pedestrian mode as the primary mode of travel as it is in 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.

Project Phasing

2018-2023 Construction: \$3,729,970

Public Process

A neighborhood meeting is held for identified repair area owners in advance of the work starting and individual notices are mailed out yearly to the adjacent property owners.

DET/Impact Fees

This project is not funded by Development Excise Tax.

Interdepartmental and Interagency Collaboration

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 Community Vitality and the Parks Department because they maintain various elements in this area.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$1,678,092	\$629,093	\$606,985	\$606,985	\$629,000	\$629,000	\$629,000	\$629,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$6,037,155

Additional Annual Operating and Maintenance

Additional Annual O&M:	None	Funding Source for O&M:
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Additional Annual O&M Description:

Adjacent property owners are generally responsible for sidewalk maint

TRANSPORTATION

Project Name: Railroad Quiet Zone Implementation

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT		
Department:	PW/TRANSPORTATION	Subcommunity:	SYSTEM-WIDE
Project Number:	310TR171NG	BVCP Area:	AREA I
CEAP Required:	No	CEAP Status:	N/A

Project Description

The project implements railroad crossing Quiet Zone improvements along the Burlington Northern Santa Fe (BNSF) railroad corridor to address train horn noise impacting the Boulder community. There are a total of nine crossings, five within the City of Boulder and four adjacent to the city (see attached map). For the crossings adjacent to the city limits, it is anticipated that these Quiet Zones would be implemented in partnership with Boulder County. Work includes updating the city's Quiet Zone plan as needed to reflect any changes in federal Quiet Zone requirements and cost estimates since 2014, public outreach, design, field diagnostic review, Federal Railroad Administration (FRA) and Colorado Public Utilities Commission (PUC) application and approval processes, as well as construction of the necessary improvements to achieve quiet zone status for selected crossings. The crossings will be evaluated and prioritized based on feasibility, estimated benefit, and cost. Selected crossings will be implemented within the identified budget and a phasing plan developed for any remaining crossings.

Affected Area: Residents, employers/employees, and visitors within the City of Boulder as well as unincorporated Boulder County.

Project Phasing

2017 Construction: \$660,000 (\$528,000 from DRCOG TIP funding)
 2018 Construction: \$660,000 (\$528,000 from DRCOG TIP funding)

Public Process

The city, in collaboration with agency partners, will conduct a public outreach process beginning in mid-2016 through completion of the project in 2017/18. This process will focus on community members who live and work in proximity to the railroad crossings as well as general, city-wide outreach. The city will share information with the community regarding railroad quiet zones, including what is involved in creating quiet crossings such as physical improvements and costs. Public input will be used to help shape and prioritize the quiet zone crossing improvements for the Boulder community.

DET/Impact Fees

The Quiet Zone Implementation project is not funded with Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

For the crossings adjacent to the city limits, it is anticipated that these Quiet Zones would be implemented in partnership with Boulder County.

Change From Past CIP

New in 2017

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$0	\$660,000	\$660,000	\$0	\$0	\$0	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$1,320,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	No	Funding Source for O&M:
Additional Annual O&M Description:	Maintained by BNSF	

TRANSPORTATION

Project Name: Rehab Runway & Eastern Taxiway

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	EAST BOULDER
Department:	PW/TRANSPORTATION	BVCP Area:	AREA I
Project Number:	310AP001NG	CEAP Status:	N/A
CEAP Required:	No		

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. Runway 8/26 is the only runway for powered aircraft and essential for operations at the airport. The runway was last paved in 2001, has an approximate lifespan of 20 years, and this project was included in the 2007 Airport Master Plan CIP schedule. The project is funded 93% by federal and state grant proceeds.

Project Phasing

2018 Design - \$379,445 (FAA: \$341,500
CDOT: \$18,972 Airport Fund: \$18,973)

2020 Construction - \$5,414,444 (FAA: \$4,900,000
CDOT: \$150,000 Airport Fund: \$364,444)

Public Process

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.

DET/Impact Fees

This project is not funded by Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

Project is coordinated with the Federal Aviation Administration.

Change From Past CIP

Updated cost estimates and funding

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Airport	\$0	\$0	\$379,445	\$0	\$5,414,444	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$5,793,889

Additional Annual Operating and Maintenance

Additional Annual O&M:	None	Funding Source for O&M:
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Additional Annual O&M Description:

Maintenance decreases since pavement won't need crack fill and repair

TRANSPORTATION

Project Name: Sidewalk Maintenance

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PW/TRANSPORTATION

Subcommunity: SYSTEM-WIDE

Project Number: 310TR10080

BVCP Area: AREA I

CEAP Required: N/A

CEAP Status: N/A

Project Description

The City of Boulder's budget priorities for transportation funding are the safety and preservation of the transportation system, including maintaining all pedestrian corridors and sidewalks in a good and safe condition. The Sidewalk Maintenance budget funds the Miscellaneous Sidewalk Repair Program which shares in sidewalk repairs anywhere in the city with property owners paying for half of the repair costs for sidewalks adjacent to their property, with no out of pocket maximum for residential property owners.

Project Phasing

2018-2023: Construction - \$1,490,940

Public Process

Public 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.

DET/Impact Fees

Sidewalk maintenance is not funded by Development Excise Tax.

Interdepartmental and Interagency Collaboration

Transportation will coordinate with the Utilities Department on upgrades, modifications or improvements to existing utilities as identified in each project; Planning, Housing & Sustainability to coordinate with any adjacent planned development; and other impacted departments and agencies depending on the location of the repairs, such as the Parks Department, Greenways, Community Vitality, CU or CDOT if the project exists on their property or adjacent to their property.

Change From Past CIP

Added in 2017 CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$0	\$228,135	\$243,470	\$243,470	\$251,000	\$251,000	\$251,000	\$251,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$1,719,075

Additional Annual Operating and Maintenance

Additional Annual O&M: N/A

Funding Source for O&M:

Additional Annual O&M Description:

Repair of existing assets will reduce on-going maintenance costs.

TRANSPORTATION

Project Name: Signal Maintenance & Upgrade

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	PW/TRANSPORTATION	BVCP Area:	SYSTEM-WIDE
Project Number:	310TD0210C	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The Signal Maintenance and Upgrade project is an on-going program that is used for the installation of 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). Some locations in Boulder that have been identified as potential future signal locations are studied periodically. Other locations are studied based on requests from the community. 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 to reconstruct existing traffic signals, to provide operational benefits (such as adding double left-turns), or to address deficiencies (such as aging, corroded poles).

Project Phasing

2018 Construction: \$200,000
2022 Construction: \$200,000

Public Process

Locations for new signals are in part identified by requests from the community.

DET/Impact Fees

The Signal Maintenance & Upgrade program is funded by Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation Development	\$200,000	\$0	\$200,000	\$0	\$0	\$0	\$200,000	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$600,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	Minimal	Funding Source for O&M:
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Additional Annual O&M Description:

Maintenance for new signal

TRANSPORTATION

Project Name: TIP Local Match/TMP Implementation

Project at a Glance

Project Type:	CIP-NEW FACILITY/INFRASTRUCTUR	Subcommunity:	MULTIPLE SUBCOMMUNITIES
Department:	PW/TRANSPORTATION	BVCP Area:	SYSTEM-WIDE
Project Number:	310TR052OG	CEAP Status:	As appropriate
CEAP Required:	No		

Project Description

This ongoing funding is for the implementation of capital enhancement 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 project submitted in future years' DRCOG TIP submittal process (the next process starts in 2018 with funding available for 2019) 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 that was 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.

Project Phasing

2018-2023: Planning/Acquisition/Construction - \$17,200,000

Public Process

Public process, CEAP and design to be determined in relationship to specific projects.

DET/Impact Fees

This portion of the TIP Local Match/TMP Implementation program is not funded by Transportation Development Excise Tax.

Interdepartmental and Interagency Collaboration

As the projects are completed and refined, necessary interdepartmental coordination will be identified.

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$149,098	\$1,723,764	\$800,000	\$800,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000
Transportation Development	\$0	\$540,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$15,472,862

Additional Annual Operating and Maintenance

Additional Annual O&M:	N/A	Funding Source for O&M:	
Additional Annual O&M Description:	N/A		

TRANSPORTATION

Project Name: TMP Update

Project at a Glance

Project Type:	CIP-CAPITAL PLANNING STUDIES	Subcommunity:	SYSTEM-WIDE
Department:	PW/TRANSPORTATION	BVCP Area:	SYSTEM-WIDE
Project Number:	310TR477NC	CEAP Status:	
CEAP Required:	No		

Project Description

This request funds the initial year of the TMP update, including technical research and evaluation, consultant support, coordination across departments and with partner agencies, and extensive public process activities. The full update is expected to be completed in 2019. The update of the TMP will reprioritize and add to the TMP Action Plan which provides guidance to the work program of Transportation in the near, mid and longer terms. The update allows for a comprehensive review of the TMP relative to broader community goals and of the Action Plan with council to assure it reflects council priorities for transportation.

Project Phasing

2018 - Planning & Implementation - \$200,000
 2019 - Planning & Implementation - \$150,000

Public Process

A number of work efforts in 2017 will directly support the update including the Transportation Report on Progress, Pedestrian Plan update, Low Stress Network analysis and the Transit Service Study. Each of these project has a public process while the TMP update will include an extensive public process using standard tools such as open houses and presentation, and the full range of digital outreach tools

DET/Impact Fees

This project is not funded by Transportation Excise Tax.

Interdepartmental and Interagency Collaboration

Given the cross-cutting nature of transportation and its relationship to planning and climate goals, an interdepartmental staff working group will support the update, along with representatives from numerous partner agencies including CDOT, RTD, Boulder County and Boulder Valley School District; and from community partners such as Community Cycles, Commuter Solutions and Boulder Transportation Connections.

Change From Past CIP

N/A

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Transportation	\$9,135	\$70,240	\$150,000	\$200,000	\$0	\$0	\$0	\$0

Funding to Completion \$0
 Future Unfunded \$0

Total Funding Plan: \$429,375

Additional Annual Operating and Maintenance

Additional Annual O&M:	N/A	Funding Source for O&M:	
Additional Annual O&M Description:			
	N/A		

UTILITIES

OVERVIEW OF DEPARTMENT MISSION

The Utilities Division is responsible for the oversight of water, wastewater, and stormwater and flood management services. The mission of the Utilities Division is to provide quality water services, as desired by the community, in a manner which emphasizes efficient management of fiscal and natural resources and protects human and environmental health. These services include:

- Water Treatment and Distribution
- Water Resources and Hydroelectric
- Wastewater Collection and Treatment
- Stormwater Management
- Floodplain Management and Greenways
-

FUNDING OVERVIEW

Each of the city's three utilities is established as a separate enterprise fund designed to finance and account for related facilities and services. Funding for the Utilities Division capital improvement program (CIP) is derived primarily from monthly utility fees. In addition to the monthly utility fees, significant revenue sources include Plant Investment Fees (PIFs) from new development or redevelopment and hydroelectric sales.

Additional revenue sources include reimbursements from the Urban Drainage & Flood Control District (UDFCD), 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 (CDPHE). Sales from monthly utility fees can be variable and reflect yearly weather fluctuations. Revenues from outside sources are project specific and are highly variable depending on the external agency's funding situation and priorities. Revenue adjustments are reviewed annually by the Water Resources Advisory Board prior to consideration by City Council.

Projects may be funded by issuing revenue bonds with the debt service financed by general utility charges. For the years 2018-2023, it is anticipated that new bonds will be issued for the following projects:

Water

- Southern Water Supply Pipeline II (Carter Lake Pipeline) to improve water quality and system resiliency for source water supply to the Boulder Reservoir Water Treatment Facility. This bond will also include additional funding for waterline replacement (\$38M in 2018)
- Barker Dam Outlet (\$9M in 2020) to fund repairs to the outlet works system.

Wastewater

- Main Interceptor Realignment and Foothills/Baseline Trunk Sewer Replacement (\$14M in 2018)
- Waste Water Treatment Facility (WWTF) improvements (\$40M in 2022) to fund phosphorus treatment to meet regulatory requirements (\$18M), rehabilitation of the primary clarifiers (\$9M) and the Arapahoe trunk sewer replacement (\$13M).

Stormwater and Flood Management

- South Boulder Creek Phase I (\$30M in 2019) to fund improvements designed to mitigate floodwaters from South Boulder Creek overtopping Highway US 36 near the Table Mesa Park and Ride.
- Upper Goose Creek storm sewer improvement and expansion (\$13M in 2023)

UTILITIES

The preliminary 2018 budget reflects the following revenue increases: 8 percent Water, 5 percent Wastewater, and 7 percent Stormwater/Flood Management. The following table summarizes the 2017 adopted revenue increase and proposed revenue increase projections for 2018-2020. The proposed 2018 increases are in bold.

Proposed Utility Fee Increases				
	2017	2018	2019	2020
Water	8%	8%	7%	7%
Wastewater	5%	5%	5%	5%
Stormwater/ Flood Mgmt	8%	7%	7%	7%

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN THE 2018 CAPITAL BUDGET

Water Utility: The capital improvements focus for the Water Utility continues to be on rehabilitation and replacement of existing assets and addresses a combination of source water and treated water needs.

The source water needs will include several large capital projects including the Southern Water Supply Pipeline II (Carter Lake Pipeline). In 2017, Utilities will complete the project's design phase. Utilities has identified approximately \$32M in the 2018 CIP for the construction phase. An additional source water priority includes the Barker Gravity Line rehabilitation. This project involves the rehabilitation of approximately 12 miles of raw water pipeline between Barker Reservoir and Kossler Reservoir, and is estimated to be completed over a 15-year period.

The capital improvements focus for the treated water system will include water treatment plant (WTP) needs as well as water distribution system needs. The Betasso WTP is currently undergoing a significant rehabilitation project to address asset management related needs. The Betasso project's construction phase began in late 2016 with an estimated cost of \$35M and is scheduled for completion in the first quarter of 2019. The water distribution system needs include the ongoing small diameter (12-inch and smaller) water line rehabilitation program which involves the replacement of approximately four miles of pipe annually. This program is funded at approximately \$3.5M per year. In 2017, Utilities bid a large diameter (14-inch and larger) water transmission system rehabilitation project. The Zone III water transmission project, which is funded at 3.5M, will be completed in 2017.



Improvements being made at Betasso (WTP)

UTILITIES

Wastewater Utility: The capital improvements focus for the Wastewater Utility will address a combination of wastewater treatment facility (WWTF) needs as well as wastewater collection system needs.

The largest WWTF capital project identified in the 6-year CIP involves a nutrient removal project to address effluent regulations that are expected to be part of the upcoming CDPHE permit to meet Regulation 85. Other projects include rehabilitation of the primary clarifiers and a new secondary digester cover. It is anticipated that Utilities will bond approximately \$40M for these projects these three projects in 2022 for construction phase. Other WWTF projects include the instrumentation and controls (I&C) upgrades.

The focus for the wastewater collection system will be to continue the current sewer rehabilitation program which has the goal of rehabilitating or replacing all clay sewers as well as addressing the system's hydraulic limitations identified in the 2017 Wastewater Collection System Master Plan (WWCSMP). The rehabilitation effort is in its second year of an ongoing program with a projected 20-year duration The rehabilitation program includes the replacement of medium-diameter trunk sewers including the Goose Creek trunk sewer system from Foothills Hwy to 55th St, the Baseline trunk sewer system from Foothills Hwy to 55th St, the Arapahoe Ave trunk sewer system from Foothills Hwy to Old Tale Rd, and the city's main interceptor sewer from Valmont Rd & 55th St to the WWTF.

Stormwater and Flood Management Utility: The capital improvements focus for the Stormwater and Flood Management Utility will address a combination of flood mitigation projects as well as storm sewer improvement projects.

The flood mitigation projects identified during the next 6 years include Fourmile Canyon Creek, Wonderland Creek and South Boulder Creek. The Wonderland and Fourmile Canyon Creek improvements were identified in a 2009 flood mitigation plan. The South Boulder Creek Mitigation Plan was completed in 2015. The construction of the Wonderland Creek flood and greenways improvements between Foothills Highway and Winding Trail is anticipated to be completed at the end of 2017. Flood mitigation and path improvements along Fourmile Canyon Creek between 19th Street and Broadway are anticipated to be bid in 2018. A preliminary design for the South Boulder Creek detention facility upstream of U.S. 36 is anticipated to be initiated in 2017 subject to the completion of the Boulder Valley Comprehensive Plan update and land use decision regarding the CU South property. Flood mitigation plans are anticipated to be completed in 2018 for Upper Goose Creek, Twomile Creek, Skunk Creek, King's Gulch and Bluebell Creek. These plans will help identify future flood mitigation projects.

Capital improvements for the stormwater collection system will focus on expansion of the system into underserved areas and capacity improvements to address hydraulic limitations identified in the 2017 Stormwater Master Plan (SMP). Specific projects will include an expansion of storm sewer system in the vicinity of Pearl St from 17th St to 21st St, and replacement and expansion of the storm sewer system in the upper Goose Creek basin from 19th St to 4th St.



Wonderland Creek Flood Mitigation

UTILITIES

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*				
Project	2017	2018	2019	
Water				
Carter Lake Pipeline	Design	Construction	Construction	
Barker Gravity Line Rehabilitation	Construction	Construction	Construction	
Betasso WTP Improvements	Construction	Construction	Construction	
Treated Water System Rehabilitation	Construction	Construction	Construction	
Zone III Transmission System	Construction			
Wastewater				
WWTF I&C Upgrades	Construction			
Goose Creek Trunk Sewer Rehabilitation & Replacement	Design & Permitting	Construction		
Foothills & Baseline Trunk Sewer Rehabilitation & Replacement	Alternatives Analysis & Design	Permitting & Construction	Construction	
Arapahoe Ave Trunk Sewer Rehabilitation & Replacement	Alternatives			
Main Interceptor Replacement	Design & Permitting	Permitting & Construction	Construction	
Sanitary Sewer Rehabilitation Program	Downtown	University Hill Area	Martin Acres & Newlands	
Stormwater/Flood				
Wonderland Creek Foothills to Winding Trail	Complete			
South Boulder Creek Phase I	Preliminary	Design	Design/Construct	
Fourmile Canyon Creek 19 th to Broadway	Design	Design/Construct	Construct	
Gregory Creek upstream of Arapahoe		Design		
Boulder Creek/Boulder Slough		Design		
Storm Sewer Rehabilitation Program	University Hill & Downtown Boulder	Downtown Boulder & Mapleton Hill	Mapleton Hill & Newlands	

*This table does not include all the projects in the CIP, see fund summary and projects sheets for the full list of projects.

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

BOARD ACTION

The preliminary 2018 Utilities budget and 2018-2023 CIP was presented to the WRAB on May 15, 2017 as a discussion item. The WRAB hosted a public hearing and continued their discussion on the 2018-2023 CIP at their June 26, 2017 meeting, and voted 5-0 to recommend approval of the proposed CIP.

UTILITIES

OVERVIEW OF GREENWAYS DEPARTMENT MISSION

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 to meet the various objectives of the Greenways Program. The Greenways CIP also looks to leverage funds with outside agencies 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 2018 annual funding distribution for the Greenways capital program is as follows:

- Transportation Fund: \$97,500
- Stormwater & Flood Management Utility Fund: \$97,500
- Lottery Fund: \$151,067

The total 2018 Greenways capital budget is \$346,067, with an additional \$105,000 in the operating budget. Historically, the Lottery contribution to the Greenways Program has been \$150,000 per year. However, the Lottery contribution is now calculated as 15-percent of the total Lottery funds allotted to the city and will change each year. The 2017 Lottery fund amount was used for the 2018-2023 CIP.

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 local governmental entities. Funding can be used for the acquisition, development and maintenance of new conservation sites and capital improvements for recreational purposes.

CURRENT FOCUS FOR CAPITAL PLANNING AND PROJECTS IN 2018

The focus of the Greenways CIP in 2018-2020 is on flood mitigation, bicycle and pedestrian multi-use paths and underpasses, and habitat and water quality improvements along the Fourmile Canyon Creek corridor. These improvements are also being coordinated with the development of the Violet Park site. The Greenways program is currently seeking additional funding through the city's capital tax program to help fund this project.

In 2021-2023, funding for these types of improvements is shown for Skunk Creek in anticipation of future major drainageway improvements along this corridor. For more information about the timing and details of these projects, please see the [Utilities -Stormwater/Flood web page](#).

In addition, possible habitat restoration projects during the next few years include:

- Habitat improvements along Fourmile Canyon Creek upstream of Broadway in conjunction with OSMP and flood mitigation efforts (sediment removal)
- Creek widening and restoration on Boulder Creek at Valmont and 55th in conjunction with OSMP
- Goose Creek, railroad to 47th Street tree plantings
- Removal of Russian Olive trees east of 75th Street along Boulder Creek in conjunction with OSMP

UTILITIES

PROJECT HIGHLIGHTS

Schedule for Highlighted Projects*

Project	2017	2018	2019
Fourmile Canyon Creek Coordinate with Flood Mitigation Project	Design	Design	Construction

**This table does not include all the projects in the CIP, see fund summary and projects sheets for the full list of projects.*

All the map-able projects proposed for funding in the 2018-2023 are shown [here](#). Please consult the project sheets in each department section for project descriptions, phasing and funding information.

BOARD ACTION

The Greenways Advisory Committee met on May 11, 2017 to review the 2018-2023 Greenways Program CIP and unanimously (6-0) recommended approval of the 2018-2023 CIP to City Council.

UTILITIES

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
PW/STORMWATER & FLOOD MGMT	\$ 76,413,112	\$ 7,207,222	\$ 33,625,308	\$ 4,533,357	\$ 8,507,738	\$ 4,360,505	\$ 18,178,982
CIP-CAPITAL ENHANCEMENT	\$ 36,062,035	\$ 5,963,722	\$ 2,752,308	\$ 2,542,657	\$ 6,507,521	\$ 2,280,279	\$ 16,015,548
2017 MP -Wonderland Creek 1 Stm Sew	386,896	-	-	-	386,896	-	-
Boulder Creek Flood Mitigation	1,250,000	1,250,000	-	-	-	-	-
Four Mile Upstream of Upland	3,000,000	3,000,000	-	-	-	-	-
Goose Creek 19th to Folsom	5,550,000	-	1,500,000	1,250,000	500,000	800,000	1,500,000
Greenways Project - Flood & Lottery **	1,491,402	248,567	248,567	248,567	248,567	248,567	248,567
Gregory Creek Flood Mitigation	500,000	500,000	-	-	-	-	-
Local Drainage Improvements	5,545,846	789,655	821,241	854,090	986,949	1,026,427	1,067,484
Stormwater Quality Improvements	1,164,172	175,500	182,500	190,000	197,390	205,285	213,497
SW MGMT - Bear Canyon Creek	324,846	-	-	-	324,846	-	-
SW MGMT - Middle Boulder Creek	3,862,873	-	-	-	3,862,873	-	-
Upper Goose Creek Storm Sewer Impr	12,986,000	-	-	-	-	-	12,986,000
CIP-CAPITAL MAINTENANCE	\$ 6,751,014	\$ 643,500	\$ 669,000	\$ 1,330,700	\$ 1,315,932	\$ 1,368,570	\$ 1,423,312
Storm Sewer Rehabilitation	3,283,107	292,500	304,000	632,700	657,966	684,285	711,656
Transportation Coordination	3,402,907	351,000	365,000	633,000	657,966	684,285	711,656
Utility Billing Computer System	65,000	-	-	65,000	-	-	-
CIP-LAND ACQUISITION	\$ 4,029,063	\$ 600,000	\$ 633,000	\$ 660,000	\$ 684,285	\$ 711,656	\$ 740,122
Preflood Property Acquisition	4,029,063	600,000	633,000	660,000	684,285	711,656	740,122
CIP-NEW FACILITY/INFRASTRUCT	\$ 29,571,000	\$ -	\$ 29,571,000	\$ -	\$ -	\$ -	\$ -
South Boulder Creek - Bond Proceeds	29,571,000	-	29,571,000	-	-	-	-

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
PW/WASTEWATER UTILITY	\$93,795,605	\$18,284,523	\$ 6,225,831	\$ 8,076,910	\$ 7,882,047	\$45,859,818	\$ 7,466,476
CIP-CAPITAL ENHANCEMENT	\$ 27,615,524	\$ 3,833,532	\$ 1,605,117	\$ 1,109,030	\$ 1,838,463	\$ 18,921,491	\$ 307,891
Foothills & Baseline Trunk Swr Repl	3,497,000	3,497,000	-	-	-	-	-
Wastewater Treatment Facility Pumps	300,000	-	150,000	-	-	150,000	-
WWTF Activated Sludge	189,798	-	189,798	-	-	-	-
WWTF Electrical	210,000	210,000	-	-	-	-	-
WWTF Instrumentation/Control	1,889,540	126,532	1,265,319	189,798	-	-	307,891
WWTF Permit Improvements	21,529,186	-	-	919,232	1,838,463	18,771,491	-
CIP-CAPITAL MAINTENANCE	\$ 66,180,081	\$ 14,450,991	\$ 4,620,714	\$ 6,967,880	\$ 6,043,584	\$ 26,938,327	\$ 7,158,585
Arapahoe Trunk Sewer Replacement	12,605,000	-	-	-	-	12,605,000	-
Collection System Monitoring	900,000	150,000	150,000	150,000	150,000	150,000	150,000
Condition Assessment Program	4,582,460	648,960	674,918	701,915	729,992	759,191	1,067,484
Interceptor Sewer Rehabilitation	10,059,920	10,059,920	-	-	-	-	-
Sanitary Sewer Manhole Rehab	2,784,274	233,972	243,331	253,064	657,966	684,285	711,656
Sanitary Sewer Rehabilitation	19,912,089	3,108,139	3,102,465	3,226,563	3,355,626	3,489,851	3,629,445
Utility Billing Computer System	65,000	-	-	65,000	-	-	-
WWTF Cogeneration	184,481	-	-	184,481	-	-	-
WWTF Digester Cleaning	136,857	-	-	136,857	-	-	-
WWTF Digester Complex	2,200,000	-	200,000	2,000,000	-	-	-
WWTF Primary Clarifiers	11,250,000	-	-	-	900,000	9,000,000	1,350,000
WWTF Rehabilitation	1,500,000	250,000	250,000	250,000	250,000	250,000	250,000

UTILITIES

	Estimated Total Cost	2018 Approved	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
PW/WATER UTILITY	\$122,074,027	\$42,884,809	\$12,730,701	\$21,717,967	\$15,026,085	\$16,351,649	\$13,362,816
CIP-CAPITAL ENHANCEMENT	\$ 56,049,460	\$32,549,040	\$ 1,768,882	\$ 9,223,194	\$ 5,413,622	\$ 6,354,600	\$ 740,122
Automated Meter Reading	740,122	-	-	-	-	-	740,122
Barker Dam Outlet	9,441,060	-	835,551	8,605,509	-	-	-
Devil's Thumb Storage Tank	1,486,874	-	-	-	-	1,486,874	-
Green Lake 2 Dam	5,429,499	-	-	75,000	486,773	4,867,726	-
Lakewood Dam	124,707	124,707	-	-	-	-	-
Lakewood Hydroelectric/PRV	300,000	-	300,000	-	-	-	-
NCWCD Conveyance - Carter Lake Pipe	32,050,000	32,050,000	-	-	-	-	-
Orodell Hydro/PRV Facility	250,000	100,000	100,000	50,000	-	-	-
Pearl Street Hydro/PRV Facility	267,664	24,333	243,331	-	-	-	-
Source Water Monitoring/Protection	200,000	100,000	100,000	-	-	-	-
Water System Security/Quality Imprv	240,000	150,000	90,000	-	-	-	-
Wittemyer Ponds	5,519,534	-	100,000	492,685	4,926,849	-	-
CIP-CAPITAL MAINTENANCE	\$ 62,717,349	\$10,285,769	\$10,711,819	\$ 9,994,773	\$ 9,612,463	\$ 9,947,049	\$12,165,476
Albion Dam	3,757,997	341,636	3,416,361	-	-	-	-
Barker Gravity Pipeline Repair	16,109,601	2,452,571	2,540,674	2,632,301	2,727,593	2,826,697	2,929,765
Betasso Hydroelectric / PRF	750,000	550,000	200,000	-	-	-	-
Boulder Canyon Hydro	415,000	90,000	75,000	-	-	-	250,000
Boulder Reservoir	118,434	-	-	118,434	-	-	-
Chatauqua Storage Tank	848,546	-	-	-	-	-	848,546
Distribution Waterline Replacement	24,054,895	3,626,562	3,771,624	3,922,489	4,079,389	4,242,564	4,412,267
Farmer's Ditch	108,160	-	108,160	-	-	-	-
Goose Lake Dam	75,000	75,000	-	-	-	-	-
Hydro Facilities Rehab Program	300,000	50,000	50,000	50,000	50,000	50,000	50,000
Island Lake Dam	50,000	50,000	-	-	-	-	-
Kohler Hydro/PRV Facility	100,000	-	100,000	-	-	-	-
Kossler Dam	850,000	-	-	-	-	100,000	750,000
Maxwell Hydro/PRV Facility	100,000	-	-	-	100,000	-	-
Reservoir Water Treatment Facility	800,000	200,000	-	600,000	-	-	-
Silver Lake Dam	100,000	100,000	-	-	-	-	-
Silver Lake Hydroelectric/PRV	450,000	-	200,000	-	-	-	250,000
Skyscraper Dam	171,071	-	-	-	171,071	-	-
Source Pumping and Hydro Rehab	1,721,570	150,000	150,000	343,472	351,210	359,259	367,629
Sunshine Hydroelectric/PRV Facility	150,000	-	-	-	-	150,000	-
Utility Billing Computer System	125,000	-	-	125,000	-	-	-
Water Treatment Equipment Repl	456,080	100,000	100,000	100,000	50,000	52,000	54,080
Watershed Improvements	100,000	-	-	100,000	-	-	-
Zone 1 Transmission Pipes	2,660,839	-	-	626,601	651,665	677,732	704,841
Zone 2 Transmission Pipes	3,860,104	-	-	909,016	945,377	983,192	1,022,519
Zone 3 Transmission Pipes	4,485,052	2,500,000	-	467,460	486,158	505,605	525,829
CIP-NEW FACILITY/INFRASTRUCT	\$ 3,307,218	\$ 50,000	\$ 250,000	\$ 2,500,000	\$ -	\$ 50,000	\$ 457,218
Barker Dam Hydroelectric	507,218	-	-	-	-	50,000	457,218
Carter Lake Hydroelectric	2,800,000	50,000	250,000	2,500,000	-	-	-

UTILITIES

Project Name: 2017 MP -Wonderland Creek 1 Stm Sew

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/STORMWATER & FLOOD

Project Number: 610SW72000

CEAP Required: No

Subcommunity: NORTH BOULDER

BVCP Area: AREA I

CEAP Status: Not started

Project Description

The storm sewer system in Broadway between Fourmile Canyon Creek and Wonderland Creek requires improvements. This project expands the storm sewer system in this area to provide a sufficient level of service.

Project Phasing

Design: 2021

Construction: 2021

Public Process

This project was identified through the 2017 stormwater master plan process which was presented to the Water Resources Advisory Board (WRAB). The public had multiple opportunities to provide feedback on the master plan approach and project prioritization at those WRAB meetings.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with the Transportation Division to coincide with the upcoming reconstruction of Broadway may eliminate the need for this project.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$0	\$0	\$0	\$0	\$0	\$386,896	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$386,896

Additional Annual Operating and Maintenance

Additional Annual O&M: \$600

Funding Source for O&M:

Additional Annual O&M Description:

Additional maintenance cost assumed to be \$3/ft of new sewer

UTILITIES

Project Name: Boulder Creek Flood Mitigation

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	MULTIPLE SUBCOMMUNITIES
Department:	PW/STORMWATER & FLOOD	BVCP Area:	AREA I
Project Number:	610SW01500	CEAP Status:	pending project selected
CEAP Required:	Yes		

Project Description

The Boulder Creek Restoration Plan was accepted by City Council in February 2016 and identified various improvements along Boulder Creek and Boulder Slough. This project will provide funds for flood mitigation work identified in the plan.

Projects requiring a Community and Environmental Assessment Process (CEAP) will be identified.

<https://bouldercolorado.gov/flood/boulder-creek-restoration-master-plan>

Project Phasing

Design: 2018 (Design improvements and complete a CEAP as needed)
Construction: TBD

Public Process

The Water Resources Advisory Board (WRAB) and City Council have reviewed the Restoration Plan. City Council accepted the plan in 2016.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Urban Drainage and Flood Control District coordinated a watershed wide restoration planning effort which included Boulder County and Longmont.

Change From Past CIP

no change

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$4,979	\$422,196	\$1,250,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,677,175

Additional Annual Operating and Maintenance

Additional Annual O&M:	No	Funding Source for O&M:
Additional Annual O&M Description:	No increase, funded by existing operating budget	

No increase, funded by existing operating budget

UTILITIES

Project Name: Four Mile Upstream of Upland

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	NORTH BOULDER
Department:	PW/STORMWATER & FLOOD	BVCP Area:	AREA I
Project Number:	610SW02000	CEAP Status:	2016
CEAP Required:	Yes		

Project Description

The area of Fourmile Canyon Creek from 19th Street to Broadway has spill flows which hamper emergency vehicle use and access to Crest View Elementary during major storm events. This project will provide flood mitigation along Fourmile Canyon Creek west of 19th to Broadway. This project includes multi-use underpasses at Violet and Upland, a multi-use path connection and sediment capture.

The total estimated cost for flood mitigation is \$6.5M. Multi-use path connection improvements will be funded from the Greenways CIP.

Project Phasing

Design: 2017-2018 (19th Street to Violet Ave)

\$3.5M in funding was included in 2016-2017 in project 610SW02100 in the flood fund

Construction: 2019

Public Process

CEAP approved by GAC and Council in 2016

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Parks and Recreation: for development of Violet Park
 Transportation Division: for underpasses and multi-use path.

Change From Past CIP

Moved \$500k from Skunk and Twomile into 2018 Fourmile

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$0	\$0
Utility								
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$3,000,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$10,000

Additional Annual O&M Description:

new flood easements, multi-use path and underpasses

Funding Source for O&M:

UTILITIES

Project Name: Goose Creek 19th to Folsom

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	CENTRAL BOULDER
Department:	PW/STORMWATER & FLOOD	BVCP Area:	AREA I
Project Number:	610SW00200	CEAP Status:	2018
CEAP Required:	Yes		

Project Description

There is extensive flooding along Goose Creek. This project would enlarge the channel to provide increased capacity between 19th Street and Folsom Street in conjunction with storm sewer improvements in the area.

Project Phasing

2019 Design
2023 Construction

Public Process

A Community & Environmental Assessment Process (CEAP) will go to the Water Resources Advisory Board in 2018. This process will include public open houses and outreach.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

The storm sewer improvements are budgeted separately (both funding sources are within the Stormwater and Flood budget) and that work will be coordinated with the improvements to the channel. No other departmental or agency coordination is required.

Change From Past CIP

added funding in 2023

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$0	\$0	\$0	\$1,500,000	\$1,250,000	\$500,000	\$800,000	\$1,500,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$5,550,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$1000

Funding Source for O&M:

Additional Annual O&M Description:

remove sediment and debris

UTILITIES

Project Name: Gregory Creek Flood Mitigation

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT		
Department:	PW/STORMWATER & FLOOD	Subcommunity:	CENTRAL BOULDER
Project Number:	610SW02400	BVCP Area:	AREA I
CEAP Required:	No	CEAP Status:	NA

Project Description

A flood mitigation plan for Gregory Canyon Creek was approved by City Council in December 2015. The plan identified various improvements, primarily involving replacement of culverts to increase the conveyance capacity of the channel to carry a 10-year storm event.

<https://bouldercolorado.gov/flood/gregory-canyon-creek-flood-mitigation-study>

Project Phasing

Construction: 2017

Bridge replacement at the old Highland School is underway and is anticipated to be completed in mid 2017

Design: 2018

Next upstream projects identified in the mitigation plan. Once the design is completed, funding for the construction will be programmed into the CIP.

Public Process

The Water Resources Advisory Board (WRAB) and City Council have reviewed the mitigation plan. City Council accepted the mitigation plan in 2016.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

no change

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$488,246	\$283,518	\$500,000	\$0	\$0	\$0	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$1,271,763

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$1,000	Funding Source for O&M:
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Additional Annual O&M Description:

new easements will need to be maintained

UTILITIES

Project Name: Local Drainage Improvements

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SYSTEM-WIDE
Department:	PW/STORMWATER & FLOOD	BVCP Area:	AREA I
Project Number:	610SW77000	CEAP Status:	Not applicable
CEAP Required:	No		

Project Description

This capital project provides funds to improve local drainage problems which are small enough to be outside of the scope of a master planning effort. Most work funded by this program is intended to address system deficiencies highlighted through customer complaints. Funding is also used to supplement the storm sewer rehabilitation program.

Project Phasing

This ongoing funding program addresses miscellaneous unplanned drainage improvement projects. These projects are primarily reported by residents to City staff as they arise.

Public Process

Work implemented by this project is typically the result of direct complaints from residents.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with the Transportation Division on drainage needs and roadway impacts.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$643,349	\$1,525,160	\$789,655	\$821,241	\$854,090	\$986,949	\$1,026,427	\$1,067,484

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$7,714,355

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

Work implemented through this project typically reduces maintenance.

UTILITIES

Project Name: Preflood Property Acquisition

Project at a Glance

Project Type: CIP-LAND ACQUISITION

Department: PW/STORMWATER & FLOOD

Project Number: 610SW62200

CEAP Required: No

Subcommunity: MULTIPLE SUBCOMMUNITIES

BVCP Area: SYSTEM-WIDE

CEAP Status: NA

Project Description

This project provides on-going funding for the purchase of properties from willing sellers in areas prone to flooding especially the city's high hazard regulatory area. The city periodically updates its flood mapping to reflect changing conditions and improvements in flood modeling. The highest risk properties are identified and prioritized for purchase, based on updated mapping for each of the drainageways.

The project is for an ongoing funding program. Funding has been escalated to reflect inflation.

Project Phasing

This fund is used as properties come on the market that are identified as high hazard flood properties

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$0	\$4,254,566	\$600,000	\$633,000	\$660,000	\$684,285	\$711,656	\$740,122

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$8,283,629

Additional Annual Operating and Maintenance

Additional Annual O&M: \$1,000

Additional Annual O&M Description:

Maintaining newly aquired property (weeds, sediment, debris, etc)

Funding Source for O&M:

UTILITIES

Project Name: South Boulder Creek - Bond Proceeds

Project at a Glance

Project Type: CIP-NEW FACILITY/INFRASTRUCTUR
Department: PW/STORMWATER & FLOOD **Subcommunity:** MULTIPLE SUBCOMMUNITIES
Project Number: 610SW00500 **BVCP Area:** AREA II
CEAP Required: No **CEAP Status:** none

Project Description

This project is to mitigate flooding in the West Valley from South Boulder Creek based on recommendations in the 2015 South Boulder Creek Flood Mitigation Plan. This project eliminates overtopping of US36 during a 100-year storm event and greatly reduces downstream flood risks.

It is anticipated that the project will be designed and constructed in three phases, each approximately \$15-\$25 million. This project is the first phase and includes construction of a regional flood detention pond located just south of US36. A Community & Environmental Assessment Process (CEAP) will not be completed for the first phase as numerous alternatives were evaluated and presented for public consideration over the 5-year period and an extensive alternative analysis was completed as part of the South Boulder Creek Flood Mitigation Plan for this project phase.

Project Phasing

Planning and Environmental Clearances: 2017-2018
 (funding approved in prior budget years in project number 610SW00400)

Design: 2018-2019
 Construction: 2019-2020

Public Process

The South Boulder Creek Mitigation Plan was initiated in 2010 and completed in August 2015 with significant public process throughout its development. Design considerations of the regional detention facility will include public input during the preliminary design process. Preliminary design will be initiated once the Boulder Valley Comprehensive Plan update process has been completed and there is a decision regarding land use on CU South.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

The regional detention facility will impact Colorado Department of Transportation and University of Colorado properties and may impact Open Space & Mountain Parks property during construction. Utilities staff will coordinate with these entities as well as Transportation Division and Planning & Development Services. Coordination will also occur through the Boulder Valley Comprehensive Plan update and preliminary design phase.

Change From Past CIP

Moved construction bond money from 2018 to 2019

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$0	\$0	\$0	\$29,571,000	\$0	\$0	\$0	\$0
							Funding to Completion	\$0
							Future Unfunded	\$0

Total Funding Plan: \$29,571,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$10,000 **Funding Source for O&M:**

Additional Annual O&M Description:

Detention Berm will require on-going maintenance

UTILITIES

Project Name: Storm Sewer Rehabilitation

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	PW/STORMWATER & FLOOD	BVCP Area:	SYSTEM-WIDE
Project Number:	610SW76000	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The program provides funds for the rehabilitation or replacement of existing storm sewers that have reached the end of their useful life.

Project Phasing

This ongoing funding program is funded at \$250,000 per year (2013) escalated by an inflation index for future years. Sewers are rehabilitated on an ongoing basis using these funds.

Public Process

Public process is limited to notification of construction activities.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with the Transportation Division on drainage needs and roadway impacts.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$269,447	\$726,309	\$292,500	\$304,000	\$632,700	\$657,966	\$684,285	\$711,656

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$4,278,863

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: Stormwater Quality Improvements

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	SYSTEM-WIDE
Department:	PW/STORMWATER & FLOOD	BVCP Area:	SYSTEM-WIDE
Project Number:	610SW77500	CEAP Status:	Not applicable
CEAP Required:	No		

Project Description

This program will fund stormwater quality projects as identified in the Stormwater Master Plan and the stormwater quality engineering staff to improve water quality in Boulder Creek and its tributaries. This funding can be used for multiple efforts such as infrastructure maintenance, installation and planning studies.

Project Phasing

This ongoing funding program is funded at \$150,000 per year (2014) escalated by an inflation index for future years.

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$0	\$605,675	\$175,500	\$182,500	\$190,000	\$197,390	\$205,285	\$213,497

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,769,847

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:
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Additional Annual O&M Description:

This project is frequently used to supplement maintenance efforts

UTILITIES

Project Name: SW MGMT - Bear Canyon Creek

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/STORMWATER & FLOOD

Project Number: 610SW73000

CEAP Required: No

Subcommunity: SOUTH BOULDER

BVCP Area: AREA I

CEAP Status: Not applicable

Project Description

The storm sewer system at Ithaca & Wildwood creates a hydraulic bottleneck and requires improvements. This project straightens out the storm sewer to outfall directly into the drainageway, expands the level of service and reduces ponding in the streets.

Project Phasing

Design: 2021

Construction: 2021

Public Process

This project was identified through the 2017 stormwater master plan process which was presented to the Water Resources Advisory Board (WRAB). The public had multiple opportunities to provide feedback on the master plan approach and project prioritization at those WRAB meetings.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with the Transportation Division regarding roadway restoration after installation of the sewer system.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$0	\$0	\$0	\$0	\$0	\$324,846	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$324,846

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: SW MGMT - Middle Boulder Creek

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	CENTRAL BOULDER
Department:	PW/STORMWATER & FLOOD	BVCP Area:	AREA I
Project Number:	610SW71000	CEAP Status:	
CEAP Required:	No		

Project Description

The storm sewer system in Downtown Boulder along Pearl Street from 16th Street to 21st Street requires improvements. The master plan project expands the storm sewer system in this area to provide a sufficient level of service.

Project Phasing

Design: 2021
Construction: 2021

Public Process

This project was identified through the 2017 stormwater master plan process which was presented to the Water Resources Advisory Board (WRAB). The public had multiple opportunities to provide feedback on the master plan approach and project prioritization at those WRAB meetings.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with Transportation Division for roadway restoration after installation of the sewer system.

Collaboration with Community Vitality for parking services impacts in the downtown area.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$0	\$0	\$0	\$0	\$0	\$3,862,873	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$3,862,873

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: Transportation Coordination

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	PW/STORMWATER & FLOOD	BVCP Area:	SYSTEM-WIDE
Project Number:	610SW78000	CEAP Status:	N/A
CEAP Required:	No		

Project Description

This program 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.

Project Phasing

This ongoing funding program is funded at \$250,000 per year (2013) escalated by an inflation index for future years.

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$467,000	\$561,000	\$351,000	\$365,000	\$633,000	\$657,966	\$684,285	\$711,656

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$4,430,907

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

Additional maintenance funding considered in Transportation CIP

UTILITIES

Project Name: Upper Goose Creek Storm Sewer Impr

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	CENTRAL BOULDER
Department:	PW/STORMWATER & FLOOD	BVCP Area:	AREA I
Project Number:	610SW75000	CEAP Status:	Not started
CEAP Required:	Yes		

Project Description

The 2007 and 2017 Stormwater Master Plans identified this project as the highest priority. This project will fund the construction of storm sewer improvements in the Upper Goose Creek drainage basin located between 4th and 19th Streets. Utilities began funding this project in 2015 and will continue to fund it through 2029.

Project Phasing

The project has numerous components that will be completed in several phases. The projected funding needed refers to funding for the total of all project phases beyond 2019.

This project relies upon the completion of open channel improvements to Goose Creek between 19th St and Folsom Ave (610SW00200) which is tentatively scheduled for completion in 2022.

Public Process

This project was identified through the 2017 stormwater master plan process which was presented to the Water Resources Advisory Board (WRAB) and the public had opportunities to provide feedback on the master plan approach and project prioritization at those WRAB meetings.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Coordination with the city's Transportation Division. Impacted parcels will not be known until flood mitigation alternatives are identified.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Stormwater & Flood Mgt Utility	\$0	\$925,000	\$0	\$0	\$0	\$0	\$0	\$12,986,000
							Funding to Completion \$0 Future Unfunded \$0	

Total Funding Plan: \$13,911,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$30,000	Funding Source for O&M:
Additional Annual O&M Description:		

Additional maintenance cost assumed to be \$3/ft of new sewer

UTILITIES

Project Name: Arapahoe Trunk Sewer Replacement

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SOUTHEAST BOULDER
Department:	PW/WASTEWATER UTILITY	BVCP Area:	AREA I
Project Number:	610WW40300	CEAP Status:	N/A
CEAP Required:	No		

Project Description

Replacement and upsizing of hydraulically under capacity trunk sewers in Arapahoe and Foothills Parkway.

Project Phasing

Design: 2020-2021
Construction: 2021-2022

Public Process

This project was identified through the 2017 wastewater master plan process which was presented to WRAB and the public had opportunities to provide feedback on the master plan approach and project prioritization at those WRAB meetings.

The project design phase will also include open houses to present the alternatives analysis and collect public feedback.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with the transportation department regarding roadway restoration after construction.

Change From Past CIP

New project

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$0	\$0	\$0	\$0	\$0	\$0	\$12,605,000	\$0
							Funding to Completion \$0	
							Future Unfunded \$0	

Total Funding Plan: \$12,605,000

Additional Annual Operating and Maintenance

Additional Annual O&M:	\$0	Funding Source for O&M:
Additional Annual O&M Description:		
no increase		

UTILITIES

Project Name: Collection System Monitoring

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWASTEWATER UTILITY

Project Number: 610WW45000

CEAP Required: No

Subcommunity:

BVCP Area:

CEAP Status: N/A

Project Description

This project provides funds for monitoring of the City's wastewater collection system. 19 flow monitors were installed as of the spring of 2016.

Project Phasing

This is an ongoing funding program and is funded at approximately \$150,000 per year.

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$64,505	\$245,075	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$1,209,580

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase; funded by existing operating budget

UTILITIES

Project Name: Condition Assessment Program

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWASTEWATER UTILITY

Project Number: 610WW45100

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status: N/A

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.

Project Phasing

This is an ongoing funding program. The program was funded at \$600,000 in 2016, and will be escalated at 4% annually.

A new assessment cycle will be bid and awarded in the fall of 2018.

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$466,471	\$1,194,148	\$648,960	\$674,918	\$701,915	\$729,992	\$759,191	\$1,067,484

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$6,243,079

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

Work implemented through this project typically reduces maintenance.

UTILITIES

Project Name: Foothills & Baseline Trunk Swr Repl

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/WASTEWATER UTILITY

Project Number: 610WW40200

CEAP Required: No

Subcommunity: SOUTHEAST BOULDER

BVCP Area: AREA I

CEAP Status:

Project Description

Replacemnt and upsizing of hydraulically under capacity trunk sewers in Foothills south of Baseline and in Baseline from Foothills Hwy to 55th St.

Project Phasing

Design - 2017/2018

Construction - 2018/2019

Public Process

This project was identified through the 2017 wastewater master plan process which was presented to WRAB and the public had opportunities to provide feedback on the master plan approach and project prioritization at those WRAB meetings.

The project design phase will also include open houses to present the alternatives analysis and collect public feedback.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with the transportation department regarding roadway restoration after construction.

Change From Past CIP

New project

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$0	\$0	\$3,497,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$3,497,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

Replacement of existing infrastructure, no new mainteannce needs.

Funding Source for O&M:

UTILITIES

Project Name: Interceptor Sewer Rehabilitation

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	EAST BOULDER
Department:	PWWASTEWATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WW46000	CEAP Status:	Complete
CEAP Required:	Yes		

Project Description

The City's existing main sanitary interceptor sewer is at the end of its useful life and hydraulically insufficient. The interceptor is unlined concrete pipe that is corroding and was exposed during the 2013 flood and 2015 rainstorm. This project is for the rehabilitation, reconstruction, or re-alignment of the interceptor sewer and will aim to satisfy three primary goals: structural stability, increased capacity and address alignment vulnerability.

Project Phasing

Design & Construction: 2018

Public Process

This project was identified after the 2013 flood event and was incorporated into the 2076 wastewater collection system master plan which was presented to the Water Resources Advisory Board (WRAB). The public had the opportunity to provide feedback on the master plan approach and project prioritization at those WRAB meetings.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

This project will require extensive collaboration with other property owners and managers such as the Regional Transportation District (RTD), Boulder County, and City of Boulder Open Space & Mountain Parks.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$56,168	\$9,731,343	\$10,059,920	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$19,847,430

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

Replacement of existing infrastructure, no new maintenance needs

UTILITIES

Project Name: Sanitary Sewer Manhole Rehab

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE
Department: PW/WASTEWATER UTILITY
Project Number: 610WW42000
CEAP Required: No

Subcommunity: SYSTEM-WIDE
BVCP Area: SYSTEM-WIDE
CEAP Status:

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 \$200,000 per year (2018) escalated by an inflation index for future years.

The asset condition assessment shows the need for increased funding to meet system needs. Escalation in program funds begins in 2021.

Project Phasing

This is an ongoing funding program.

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$62,903	\$228,485	\$233,972	\$243,331	\$253,064	\$657,966	\$684,285	\$711,656

Funding to Completion \$0
 Future Unfunded \$0

Total Funding Plan: \$3,075,662

Additional Annual Operating and Maintenance

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

Additional Annual O&M Description:

Work implemented through this project will reduce maintenance needs.

UTILITIES

Project Name: Sanitary Sewer Rehabilitation

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	PWWASTEWATER UTILITY	BVCP Area:	SYSTEM-WIDE
Project Number:	610WW40000	CEAP Status:	Not applicable
CEAP Required:	No		

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 \$2,000,000 per year (2015) escalated at 4% annually.

The 2018 program is anticipated to focus on the University Hill area and surrounding neighborhoods.

Project Phasing

This is an ongoing funding program.

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with utilities maintenance staff to perform pre-rehabilitation repairs, and coordination with the transportation department to avoid conflicts with road resurfacing programs.

Change From Past CIP

No Change

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$1,053,007	\$1,859,652	\$3,108,139	\$3,102,465	\$3,226,563	\$3,355,626	\$3,489,851	\$3,629,445

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$22,824,748

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

The work in this project results in a decreased maintenance burden

UTILITIES

Project Name: Wastewater Treatment Facility Pumps

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWASTEWATER UTILITY

Project Number: 610WW60000

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status: N/A

Project Description

The existing pumps at the 75th Street Wastewater Treatment Facility require rehabilitation. This project will fund the upgrade of those pumps.

Project Phasing

Construction: 2019-2022

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$0	\$150,000	\$0	\$150,000	\$0	\$0	\$150,000	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$450,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: WWTF Activated Sludge

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWASTEWATER UTILITY

Project Number: 610WW64000

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status: N/A

Project Description

This project will fund the scheduled rehabilitation of the 75th Street Wastewater Treatment Facility's aeration system biological processes.

Project Phasing

Construction: 2019

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$8,453	\$380,923	\$0	\$189,798	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$579,174

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

UTILITIES

Project Name: WWTF Cogeneration

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	AREA III
Department:	PW/WASTEWATER UTILITY	BVCP Area:	AREA III
Project Number:	610WW62900	CEAP Status:	NA
CEAP Required:	No		

Project Description

This project is to provide funding for major overhauls of the two cogeneration (electrical power) engines at the 75th Street Wastewater Treatment Facility. Engine overhauls include repair and rehabilitation efforts every 3 to 4 years, and vary in scope and fee based on engine condition. The year 2020 funding is for mechanical rebuilds of the engines, more typical of prior rehabilitation efforts.

Project Phasing

Construction: 2020

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$45,726	\$400,269	\$0	\$0	\$184,481	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$630,476

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: WWTF Digester Cleaning

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWASTEWATER UTILITY

Project Number: 610WW66000

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status:

Project Description

The 75th Street Wastewater Treatment Facility has a primary and secondary digester. This project is to provide cleaning on a 7-year cycle.

Project Phasing

Construction: 2020

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$0	\$0	\$0	\$0	\$136,857	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$136,857

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

UTILITIES

Project Name: WWTF Digester Complex

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWASTEWATER UTILITY

Project Number: 610WW60700

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status:

Project Description

This project is to replace the Wastewater Treatment Facility secondary digester floating cover. The cover has tipped and failed on several occasions in recent years taking the system offline and limiting its ability to handle gas and interrupting wastewater treatment.

Project Phasing

Planning & Design: 2019

Construction: 2020

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$0	\$0	\$0	\$200,000	\$2,000,000	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$2,200,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

UTILITIES

Project Name: WWTF Electrical

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWASTEWATER UTILITY

Project Number: 610WW63900

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status: N/A

Project Description

This project will fund the rehabilitation of various existing electrical systems at the 75th Street Wastewater Treatment Facility. 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.

Project Phasing

Construction: 2017

Construction Phase Services: 2018

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$0	\$1,520,000	\$210,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,730,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

UTILITIES

Project Name: WWTF Instrumentation/Control

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/WASTEWATER UTILITY

Project Number: 610WW63700

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status: N/A

Project Description

This project will fund the rehabilitation and/or replacement of instrumentation & control (I&C) facilities at the 75th Street Wastewater Treatment Facility. These recommendations are based on the 2013 Process Automation System (PAS) Strategic Plan. The PAS Strategic Plan identified \$6,000,000 worth of I&C improvements to be completed over 10 years.

Project Phasing

Completion (Phase 1): 2017

Construction (Phase 2): 2017-2020

Design (Phase 3): 2023

Construction (Phase 3): 2024

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

Moved phase 3 funding from 2023.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$483,844	\$643,633	\$126,532	\$1,265,319	\$189,798	\$0	\$0	\$307,891

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$3,017,017

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

O&M:

UTILITIES

Project Name: WWTF Permit Improvements

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	AREA III
Department:	PWWASTEWATER UTILITY	BVCP Area:	AREA III
Project Number:	610WW61700	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The 75th Street Waste Water Treatment Facility requires improvements and new facilities as required by Federal and State regulation to improve effluent quality, as identified by the State of Colorado Discharge Permit System (CDPS) Permit. This project addresses necessary improvements to remove phosphorus.

Project Phasing

Phosphorus Project
 Planning & Design: 2020-2021
 Construction: 2022-2023

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

Project delayed 2 years from previous CIP. Awaiting new CDPHE permit.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$3,876,083	\$725,096	\$0	\$0	\$919,232	\$1,838,463	\$18,771,491	\$0

Funding to Completion \$0
 Future Unfunded \$0

Total Funding Plan: \$26,130,365

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: WWTF Primary Clarifiers

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWASTEWATER UTILITY

Project Number: 610WW60500

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status:

Project Description

The primary clarifiers are concrete circular settling tanks with rotating steel mechanisms to separate solids from the water. They are located after the headworks and before the aeration basins (biological process). This project will replace the rotating drive mechanisms (\$3M per clarifier). This is a high priority asset management project.

Project Phasing

Construction: 2022-2023

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

Moved clarifier project out to 2022 to match phosphorus bond funding.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$0	\$0	\$0	\$0	\$0	\$900,000	\$9,000,000	\$1,350,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$11,250,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

UTILITIES

Project Name: WWTF Rehabilitation

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	AREA III
Department:	PWWASTEWATER UTILITY	BVCP Area:	AREA III
Project Number:	610WW61500	CEAP Status:	N/A
CEAP Required:	No		

Project Description

The Wastewater Utility Asset Management Planning Tool identified miscellaneous rehabilitation projects not identified in master plan documents.

Project Phasing

This project provides ongoing funding.

Public Process

N/A

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Projects are coordinated with Boulder County land use and planning

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$0	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,750,000

Additional Annual Operating and Maintenance

Additional Annual

O&M:

Additional Annual O&M Description:

Funding Source for

O&M:

UTILITIES

Project Name: Albion Dam

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	OUTSIDE PLANNING AREA
Department:	PW/WATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA62800	CEAP Status:	N/A
CEAP Required:	No		

Project Description

In 2016, the reservoir underwent emergency repair at the outlet works. In 2017, a rehabilitation alternative study was issued. This project will fund the dam liner, crest and spillway repair as recommended in the Source Water Master Plan, MWH, 2008.

Project Phasing

Design & Construction: 2018-2019

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

SEO office will review design in 2018 before construction can begin in 2019.

Change From Past CIP

No change from past CIP.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$118,555	\$86,445	\$341,636	\$3,416,361	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$3,962,997

Additional Annual Operating and Maintenance

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

UTILITIES

Project Name: Automated Meter Reading

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/WATER UTILITY

Project Number: 610WA45400

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status: NA

Project Description

This project will replace water meters with a system allowing for remote reading of usage.

Project Phasing

Project to be phased over 2023-2027

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$740,122

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$740,122

Additional Annual Operating and Maintenance

Additional Annual

O&M:

Additional Annual O&M Description:

Funding Source for

O&M:

UTILITIES

Project Name: Barker Dam Hydroelectric

Project at a Glance

Project Type:	CIP-NEW FACILITY/INFRASTRUCTUR	Subcommunity:	OUTSIDE PLANNING AREA
Department:	PWWATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA91000	CEAP Status:	Starts in 2023
CEAP Required:	No		

Project Description

Analysis and develop hydroelectric potential if preferred as recommended in the Source Water Master Plan, MWH, 2008/2009.

Project Phasing

Analysis Study: 2022
Design: 2023
Construction: 2024

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

delayed additional 4 years (to 2022) due to shifted Outlet Rehab

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$457,218

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$507,218

Additional Annual Operating and Maintenance

Additional Annual O&M: \$37,000

Funding Source for O&M:

Additional Annual O&M Description:

O&M costs may be offset by increased hydro revenue (TBD)

UTILITIES

Project Name: Barker Dam Outlet

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWATER UTILITY

Project Number: 610WA10900

CEAP Required: Yes

Subcommunity: OUTSIDE PLANNING AREA

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status:

Project Description

This project will provide funds for the rehabilitation/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 2017. If possible due to reservoir levels, Gate No. 8, 9, and 10 will be inspected with divers in 2016 to confirm the condition of the lower gates. Information regarding the alternative approaches will be provided as part of the Community & Environmental Assessment Process (CEAP).

Project Phasing

The Outlet System Rehabilitation Project will begin in 2017 with an update to the alternative analysis. The project is anticipated to complete construction in 2020.

Public Process

CEAP is to be finalized by 2019 along with final approval of the project.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

After the alternative analysis has been completed in 2017, a CEAP will be required in 2018 to confirm the preferred option proposed by city staff and technical experts. The final design will have to be reviewed and approved in 2019 by DWR-Dam Safety Division before construction can proceed in 2020. Water Resources staff will coordinate with the Water Commissioner and affected water rights holders if lower reservoir levels are required in 2019/2020.

Change From Past CIP

Project schedule shifted out due to satisfactory gate inspections.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$340,000	\$0	\$835,551	\$8,605,509	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$9,781,060

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

Funding Source for O&M:

UTILITIES

Project Name: Barker Gravity Pipeline Repair

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	OUTSIDE PLANNING AREA
Department:	PW/WATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA10600	CEAP Required:	No
CEAP Required:	No	CEAP Status:	

Project Description

This project will provide funds for ongoing repairs to the Barker Gravity Pipeline. A rehabilitation segment was placed in 2016 and the results updated the 15-year rehabilitation cost estimates forecast for 2017 to 2031. Grout patching repairs will continue in the segments not being rehabilitated in any given year.

Project Phasing

Ongoing: 2017-2031

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

The United States Forest Service, Boulder County and Private Land Owners will be coordinated with in advance of activities on the pipeline easement crossing their lands. United States Corps of Engineers permitting may be required if any wetlands are disturbed (i.e. in the bottom of the siphon segments or where access roads cross drainages).

Change From Past CIP

Updated costs from 2018 to 2031 per pilot rehab costs.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$935,844	\$1,762,266	\$2,452,571	\$2,540,674	\$2,632,301	\$2,727,593	\$2,826,697	\$2,929,765

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$18,807,710

Additional Annual Operating and Maintenance

Additional Annual O&M:

Additional Annual O&M Description:

\$250k annual costs for grouting repairs to non rehabilitated sections

Funding Source for O&M:

UTILITIES

Project Name: Betasso Hydroelectric / PRF

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PW/WATER UTILITY

Project Number: 610WA97401

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status: N/A

Project Description

This project will rehabilitate the Betasso Hydroelectric / Pressure Reducing Facility including a required 10 year scheduled maintenance overhaul of the existing turbine-generator equipment, replacement of the Hydraulic Power Unit (HPU) and replacement of the transformer.

Project Phasing

The turbine generator maintenance and HPU replacement is scheduled for replacement in 2017. Ongoing transformer monitoring will allow transformer replacement to be delayed until 2018.

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$400,000	\$550,000	\$200,000	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$1,150,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

Funding Source for O&M:

UTILITIES

Project Name: Boulder Canyon Hydro

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	MULTIPLE SUBCOMMUNITIES
Department:	PWWATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA97500	CEAP Status:	N/A
CEAP Required:	No		

Project Description

Boulder Canyon Hydroelectric – Maintenance and Inspection of the installed replacement unit (commercial operation started in 2013) and control systems.

Project Phasing

5 year inspection of the turbine in 2018, rock slope stabilization above Pump House in 2019 and full 10 year inspection and overhaul in 2023.

Public Process

No process required as an existing city owned facility.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None required as an existing city owned facility.

Change From Past CIP

Added \$75k to 2019 and \$250k to 2023

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$20,742	\$12,899	\$90,000	\$75,000	\$0	\$0	\$0	\$250,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$448,641

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0 (TBD)

Funding Source for O&M:

Additional Annual O&M Description:

O&M included with Hydro Operating budget (to be confirmed)

UTILITIES

Project Name: Boulder Reservoir

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA61000

CEAP Required: No

Subcommunity: GUNBARREL

BVCP Area: AREA I

CEAP Status:

Project Description

Inspection of outlet pipes was performed in 2016 to assess degree of corrosion. This project funds security upgrades at the reservoir. Project is for general inspections and repairs to keep Boulder Reservoir (i.e. North and South Dams) in operational condition. Budget forecast will be updated as result of present work and ongoing annual inspections with State Engineer's Office.

Project Phasing

Completion: 2020

Public Process

This project is servicing existing City of Boulder infrastructure/facilities. No public process required.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaboration with the State Engineer's Office and Northern Colorado Water Conservancy District.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$0	\$0	\$118,434	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$118,434

Additional Annual Operating and Maintenance

Additional Annual

O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget.

Funding Source for

O&M:

UTILITIES

Project Name: Carter Lake Hydroelectric

Project at a Glance

Project Type:	CIP-NEW FACILITY/INFRASTRUCTUR		
Department:	PWWATER UTILITY	Subcommunity:	OUTSIDE PLANNING AREA
Project Number:	610WA93000	BVCP Area:	OUTSIDE PLANNING AREA
CEAP Required:	Yes	CEAP Status:	2019

Project Description

Analyze potential for hydroelectric facility on the city's portion of the Carter Lake Pipeline and then design and build if preferred.

Project Phasing

Alternatives analysis in 2018 with Community & Environmental Assessment Process (CEAP) and then potentially design (2019) and construction (2020).

Public Process

CEAP in 2019 if hydro alternative is feasible.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Coordination with Northern Colorado Water Conservancy District and power company (most likely Xcel).

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$50,000	\$250,000	\$2,500,000	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$2,800,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$25k

Funding Source for O&M:

Additional Annual O&M Description:

Est. as 1% of construction cost (to be confirmed)

UTILITIES

Project Name: Chatauqua Storage Tank

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PW/WATER UTILITY

Project Number: 610WA67200

CEAP Required: No

Subcommunity: CENTRAL BOULDER

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status: Not Required

Project Description

Inspect concrete tank bottom and line and repair as needed.

Project Phasing

Inspection & Construction: 2023

Public Process

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Open Space & Mountain Parks on access and construction traffic.

Change From Past CIP

\$848,546 came into the last year of the 6 year CIP window.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$848,546

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$848,546

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: Devil's Thumb Storage Tank

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWATER UTILITY

Project Number: 610WA67400

CEAP Required: No

Subcommunity: SOUTH BOULDER

BVCP Area: AREA III

CEAP Status: Not Required

Project Description

The Devil's Thumb Storage Tank is a 2 million gallon tank located near Chautauqua. This project is for improvements associated with painting, structural steel rehabilitation.

Project Phasing

Construction: 2022

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Open Space & Mountain Parks access and fence location coordination. Boulder County fence permit.

Change From Past CIP

\$1,486,874 painting & structural rehabilitation.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$37,477	\$0	\$0	\$0	\$0	\$0	\$1,486,874	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$1,524,351

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget.

UTILITIES

Project Name: Distribution Waterline Replacement

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA38900

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status: Not Required

Project Description

The project describes on-going annual funding for waterline reconstruction in the city's 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 are required to maintain a functioning water distribution system over time.

Project Phasing

Work is done annually and year round. Design, bidding and inspection is done in house for less than 10% of the budget. Remaining funds are used for construction.

Public Process

Neighborhoods are notified a couple of weeks in advance of the construction and on the water info website.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

City & County Transportation, City & County Open Space, City Development Review, City Planning, City Flood, City Wastewater, Xcel, Century Link, BNSF, Private Developers, BVSD, RTD, small water districts and Ditch Companies.

Change From Past CIP

-

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$6,628,320	\$3,728,321	\$3,626,562	\$3,771,624	\$3,922,489	\$4,079,389	\$4,242,564	\$4,412,267

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$34,411,535

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Additional Annual O&M Description:

No increase, funded by existing operating budget.

Funding Source for O&M:

O&M:

UTILITIES

Project Name: Farmer's Ditch

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	OUTSIDE PLANNING AREA
Department:	PWWATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA55000	CEAP Status:	
CEAP Required:	No		

Project Description

Improvements and freeboard maintenance of the ditch in order to convey full ditch capacity and particularly the city's 13.52 cfs decreed in 90CW193. Capacity vulnerabilities were highlighted in the 2013 flood and 2014/2015 rain events.

Project Phasing

Rehabilitation of high priority area between Iris and Norwood completed in Jan. 2017. Re-evaluation of ditch capacity will be done in 2019 including repair of selected hydraulically constricted segments.

Public Process

Public process is not needed to complete a ditch capacity analysis. Outreach to neighboring property owners and City Council was conducted prior to ditch rehabilitation activities.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaborate with Farmers Ditch Company.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$200,000	\$0	\$0	\$108,160	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$308,160

Additional Annual Operating and Maintenance

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

UTILITIES

Project Name: Goose Lake Dam

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA61200

CEAP Required: No

Subcommunity: OUTSIDE PLANNING AREA

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status: Not Required

Project Description

This project funds outlet valve rehabilitation, installation of a reservoir gauge, and other maintenance.

Project Phasing

Completion: 2018

Public Process

This project is servicing existing City of Boulder infrastructure/facilities. No public process required.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

-

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$20,000	\$75,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$95,000

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget.

UTILITIES

Project Name: Green Lake 2 Dam

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT	Subcommunity:	OUTSIDE PLANNING AREA
Department:	PWWATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA62700	CEAP Status:	Not Required
CEAP Required:	No		

Project Description

This project will provide funds for the evaluation of alternatives and design of the rehabilitation of Green Lake 2 Dam. Green Lake 2 Dam needs extensive rehabilitation to allow continued storage of water.

Project Phasing

Alternative Analysis: 2020
Design & Construction: 2021-2022

Public Process

This project is servicing existing City of Boulder infrastructure/facilities. No public process required.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

-

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$99,719	\$0	\$0	\$75,000	\$486,773	\$4,867,726	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$5,529,218

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: Hydro Facilities Rehab Program

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA94100

CEAP Required: No

Subcommunity: MULTIPLE SUBCOMMUNITIES

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status: N/A

Project Description

Hydro maintenance for all facilities. Misc minor items/repairs/upgrades not included in specific CIP budgets.

Project Phasing

Initial estimate of \$50k a year indefinitely. Estimate to be updated periodically per actual costs for Hydro O&M tasks encountered/completed.

Public Process

No public process warranted as an existing city owned facility. Typical WRAB and CC review during CIP process annually.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None required as an existing city facility.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$350,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

Additional O&M not required as project is for misc. maintenance

UTILITIES

Project Name: Island Lake Dam

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE
Department: PWWATER UTILITY
Project Number: 610WA62600
CEAP Required: No
Subcommunity: OUTSIDE PLANNING AREA
BVCP Area: OUTSIDE PLANNING AREA
CEAP Status:

Project Description

This project is to fund valve actuations improvements and instrumentation necessary at the dam.

Project Phasing

Completion: 2018

Public Process

This project is servicing existing City of Boulder infrastructure/facilities. No public process required.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
 Future Unfunded \$0

Total Funding Plan: \$50,000

Additional Annual Operating and Maintenance

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

UTILITIES

Project Name: Kohler Hydro/PRV Facility

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA37600

CEAP Required: No

Subcommunity: SOUTH BOULDER

BVCP Area: AREA I

CEAP Status:

Project Description

The Kohler facility is a treated water pressure reducing and hydroelectric facility located below Betasso Water Treatment Facility. This project is for a complete overhaul of the pump valves which includes: disassembly, inspection, repair and reassembly.

Project Phasing

Completion: 2019

Public Process

None.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

Added \$100K in 2019 for pump valve overhauls

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$45,106	\$3,469	\$0	\$100,000	\$0	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$148,574

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

O&M:

UTILITIES

Project Name: Kossler Dam

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	OUTSIDE PLANNING AREA
Department:	PW/WATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA11900	CEAP Status:	
CEAP Required:	No		

Project Description

Kossler Dam Face Rehabilitation Project was completed in 2015. Temporary repairs were constructed to the Kossler Reservoir Inlet Structure in 2017. Both the Inlet Structure and the Outlet Structure will require full rehabilitation/replacement within 10 years and is presently scheduled for 2022/2023.

Project Phasing

Design: 2022
Construction: 2023

Public Process

This project is inspection of an existing facility/structure so no process is anticipated. It is on City of Boulder pipeline easement.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Approval of rehabilitation design and structural modifications in YR - 2022 is required from the CO Division of Dam Safety as Kossler Dam is a jurisdictional High Hazard Dam.

Change From Past CIP

Inlet/Outlet Rehab in 2022/2023

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$1,046,684	\$131,267	\$0	\$0	\$0	\$0	\$100,000	\$750,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$2,027,952

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: Lakewood Dam

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWATER UTILITY

Project Number: 610WA62000

CEAP Required: No

Subcommunity: OUTSIDE PLANNING AREA

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status:

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.

Project Phasing

Construction: 2018-2019

Public Process

This project is servicing existing City of Boulder infrastructure/facilities. No public process required.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None as city owned facility but coordination with State Engineer's Office as required for any dam related improvements.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$124,707	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$124,707

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget. TBD for future O&M

UTILITIES

Project Name: Lakewood Hydroelectric/PRV

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/WATER UTILITY

Subcommunity: AREA III

Project Number: 610WA90100

BVCP Area: AREA III

CEAP Required: No

CEAP Status:

Project Description

The Lakewood Hydroelectric station is located on the raw water transmission system near Betasso Water Treatment Facility. This project provides ongoing enhancements of hydro-electric equipment at this location as systems age or need to be replaced.

A generator overhaul was completed in 2016 and a pressure reducing valve refurbishment is planned for 2019.

Project Phasing

Completion: 2019

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$113,338	\$16,662	\$0	\$300,000	\$0	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$430,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: Maxwell Hydro/PRV Facility

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA34200

CEAP Required: No

Subcommunity: NORTH BOULDER

BVCP Area: AREA I

CEAP Status:

Project Description

The Maxwell facility is a treated water pressure reducing and hydroelectric facility located below Betasso Water Treatment Facility. This project is to completely replace the pump control valve.

Project Phasing

Completion: 2021

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

Added \$100K in 2021 for equipment replacement.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$2,177	\$47,824	\$0	\$0	\$0	\$100,000	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$150,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: NCWCD Conveyance - Carter Lake Pipe

Project at a Glance

Project Type:	CIP-CAPITAL ENHANCEMENT		
Department:	PW/WATER UTILITY	Subcommunity:	OUTSIDE PLANNING AREA
Project Number:	610WA54700	BVCP Area:	OUTSIDE PLANNING AREA
CEAP Required:		CEAP Status:	

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 Northern Colorado Water Conservancy District is the lead agency and the City of Boulder and the Left Hand Water District are project participants.

Project Phasing

CIP budget continues through 2016 for ROW and preliminary design costs. Final design and construction is scheduled for 2017/2018 respectively.

Public Process

The pipeline construction and alignment was approved by Boulder County under the 1041 permit process. Typical WRAB and CC review annually.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Coordination with Boulder County and Northern Colorado Water Conservancy District

Change From Past CIP

updated per cost share and latest estimates (2017) - O&M (2018)

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$1,206,447	\$2,299,233	\$32,050,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$35,555,680

Additional Annual Operating and Maintenance

Additional Annual O&M: \$150,000

Funding Source for O&M:

Additional Annual O&M Description:

NCWCD will charge participants actual costs - 0.5% initial est.

UTILITIES

Project Name: Orodell Hydro/PRV Facility

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWATER UTILITY

Project Number: 610WA33100

CEAP Required: No

Subcommunity: OUTSIDE PLANNING AREA

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status:

Project Description

The Orodell facility is a treated water pressure reducing and hydroelectric facility located below Betasso Water Treatment Facility. This project is upgrade the electrical panel.

Project Phasing

Replacement: 2018-2020

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

Replace dated electrical equipment \$200 K

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$8,986	\$66,409	\$100,000	\$100,000	\$50,000	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$325,395

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

UTILITIES

Project Name: Pearl Street Hydro/PRV Facility

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWATER UTILITY

Project Number: 610WA36000

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status: Not required

Project Description

This project includes 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 will be captured to produce electricity with the addition of the turbine and generator.

Project Phasing

Feasibility Study & Design: 2018

Construction: 2019-2020

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Housing & Human Services Department for shared access considerations.

Change From Past CIP

-

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$24,333	\$243,331	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$267,664

Additional Annual Operating and Maintenance

Additional Annual O&M: TBD

Funding Source for O&M:

Additional Annual O&M Description:

TBD, operating costs will be offset by hydroelectric revenue

UTILITIES

Project Name: Reservoir Water Treatment Facility

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA90000

CEAP Required: No

Subcommunity: GUNBARREL

BVCP Area: AREA I

CEAP Status: None Required

Project Description

The Boulder Reservoir Water Treatment Plant is located on 63rd Avenue at Boulder Reservoir. The Filter valve actuators open and close the filter valves and some operate manually. This project will replace the filter valve actuators, filter media, filter valves, residual lagoon asphalt and upgrade backup power with automated processes.

Project Phasing

Construction: 2016-2021

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$179,697	\$341,403	\$200,000	\$0	\$600,000	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$1,321,100

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: Silver Lake Dam

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	OUTSIDE PLANNING AREA
Department:	PWWATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA61500	CEAP Status:	
CEAP Required:	No		

Project Description

To meet State Engineer's Office Dam Safety requirements, a full outlet system inspection was completed in 2015/2016. Other required dam safety improvements were constructed in 2017. This project funds repairs to outlet valves, valve vault piping, painting and access upgrades.

Project Phasing

Completion: 2018

Public Process

This project is an inspection and repair of an existing facility/structure so no process is anticipated. It is a City of Boulder facility.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None unless major rehabilitation is required - then CO Division of Dam Safety approval is required.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$75,000	\$100,000	\$0	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$175,000

Additional Annual Operating and Maintenance

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

UTILITIES

Project Name: Silver Lake Hydroelectric/PRV

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA97000

CEAP Required: No

Subcommunity: OUTSIDE PLANNING AREA

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status:

Project Description

The Silver Lake Hydroelectric station is located on the raw water transmission system near the Lakewood Reservoir. This project provides ongoing enhancements of hydro-electric equipment at this location as systems age or need to be replaced.

A short term Programmable Logic Controller (PLC), which monitors input devices and provides output based on custom programming controls, was completed in 2016. In 2017, an alternatives analysis for permanent PLC upgrades will be conducted. The 2019 project funds the replacement of the needles/seats.

Project Phasing

Completion of Needles/Seats Rehabilitation Project in 2019. The next 10-Year Inspection and Overhaul is scheduled in 2023.

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

added \$250k (2023) for next 10 yr inspection & overhaul

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$114,755	\$63,557	\$0	\$200,000	\$0	\$0	\$0	\$250,000

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$628,312

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

O&M included in Hydro Operating Budget (to be confirmed)

Funding Source for O&M:

UTILITIES

Project Name: Skyscraper Dam

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	OUTSIDE PLANNING AREA
Department:	PWWATER UTILITY	BVCP Area:	OUTSIDE PLANNING AREA
Project Number:	610WA64000	CEAP Status:	
CEAP Required:	No		

Project Description

Funding is for infrastructure evaluation and gate replacement as recommended in the Source Water Master Plan.

Project Phasing

Completion: 2021

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$0	\$0	\$0	\$171,071	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$171,071

Additional Annual Operating and Maintenance

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

UTILITIES

Project Name: Source Pumping and Hydro Rehab

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA94000

CEAP Required: No

Subcommunity: MULTIPLE SUBCOMMUNITIES

BVCP Area: SYSTEM-WIDE

CEAP Status:

Project Description

Funding for capital maintenance for the critical source water facilities, hydroelectric, pressure reducing, and reversible pump-generator system components not identified as individual capital projects.

Project Phasing

Funding for this ongoing maintenance program began in 2016/2017 and will continue through the budget planning horizon. Increase in 2020 is scheduled increase in annual allowance for operations, maintenance and rehabilitation improvements.

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

No process required as city owned facilities but coordination may be required with land use neighbors.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$196,412	\$150,000	\$150,000	\$150,000	\$343,472	\$351,210	\$359,259	\$367,629

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$2,067,982

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing budget.

Funding Source for O&M:

UTILITIES

Project Name: Source Water Monitoring/Protection

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/WATER UTILITY

Project Number: 610WA44200

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status:

Project Description

Flow release and water quality monitoring system instrumentation improvements for the source water system.

Project Phasing

Implementation: 2015-2019

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

none

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$300,000	\$100,000	\$100,000	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$500,000

Additional Annual Operating and Maintenance

Additional Annual O&M:

Additional Annual O&M Description:

Funding Source for O&M:

O&M:

UTILITIES

Project Name: Sunshine Hydroelectric/PRV Facility

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA34700

CEAP Required: No

Subcommunity: AREA III

BVCP Area: AREA III

CEAP Status: Not Required

Project Description

The Sunshine facility is a treated water pressure reducing and hydroelectric facility located below Betasso Water Treatment Facility. This project will inspect and rebuild the turbine.

Project Phasing

Completion: 2022

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Shared access considerations with Open Space & Mountain Parks.

Change From Past CIP

Added \$150,000 in 2022 for turbine inspection and rebuild.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$271,875	\$0	\$0	\$0	\$0	\$150,000	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$421,875

Additional Annual Operating and Maintenance

Additional Annual O&M: 0

Funding Source for O&M:

Additional Annual O&M Description:

No increase, funded by existing operating budget

UTILITIES

Project Name: Utility Billing Computer System

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA45300

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status:

Project Description

The existing Utility Billing Computer System is aging and needs updates. This project will upgrade the system.

The funding is split between the three Utilities Enterprise Funds (SW, WW, and WA)

Project Phasing

Completion: 2020

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

This project will be coordinated with the IT and Finance Departments.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Wastewater Utility	\$19,346	\$45,479	\$0	\$0	\$65,000	\$0	\$0	\$0
Water Utility	\$38,693	\$61,308	\$0	\$0	\$125,000	\$0	\$0	\$0
Stormwater & Flood Mgt Utility	\$19,346	\$15,829	\$0	\$0	\$65,000	\$0	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$455,000

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

UTILITIES

Project Name: Water System Security/Quality Imprv

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/WATER UTILITY

Project Number: 610WA44000

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status:

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. Water quality monitoring will be installed in conjunction with security improvements where appropriate.

Project Phasing

Various cameras, fences, network connections and water quality monitory at treated water starnded facilities such as Devil's Thumb Tank, Booton Reservoir, Kohler Reservoir, Maxwell Reservoir and 101 Pearl.

Public Process

none

DET/Impact Fees

Interdepartmental and Interagency Collaboration

City Open Space & Mountain Parks, Boulder County and City Development Review.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$101,268	\$330,852	\$150,000	\$90,000	\$0	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$672,121

Additional Annual Operating and Maintenance

Additional Annual O&M: \$5,000

Additional Annual O&M Description:

Maintain panels and instruments

Funding Source for O&M:

UTILITIES

Project Name: Water Treatment Equipment Repl

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE		
Department:	PWWATER UTILITY	Subcommunity:	SYSTEM-WIDE
Project Number:	610WA95000	BVCP Area:	OUTSIDE PLANNING AREA
CEAP Required:	No	CEAP Status:	Not Required

Project Description

Equipment replacement fund for both treatment facilities. Administered by plant staff for equipment replacement outside of larger projects.

Project Phasing

This provides ongoing capital maintenance funding.

Public Process

None

DET/Impact Fees

Interdepartmental and Interagency Collaboration

None

Change From Past CIP

None

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$127,000	\$100,000	\$100,000	\$100,000	\$50,000	\$52,000	\$54,080

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$583,080

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

No increase, funded by existing operating budget

Funding Source for O&M:

UTILITIES

Project Name: Watershed Improvements

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA52000

CEAP Required: No

Subcommunity: OUTSIDE PLANNING AREA

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status:

Project Description

General Watershed improvements as recommended in the 2009 Source Water Master Plan. This project funds ongoing improvements to facilitate continued reliable operation of the watershed source water storage and delivery system. Fund augmentation needs will be assessed at the end of 2018.

Project Phasing

Ongoing fund.

Public Process

No public process is required as any improvements in the watershed are on city land.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Coordination only required with State Engineer's Office on dam related items. All other items are internal to the city engineering and management staff team.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$96,292	\$130,065	\$0	\$0	\$100,000	\$0	\$0	\$0

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$326,357

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Additional Annual O&M Description:

Funding Source for O&M:

UTILITIES

Project Name: Wittermyer Ponds

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PWWATER UTILITY

Project Number: 610WA65000

CEAP Required: Yes

Subcommunity: OUTSIDE PLANNING AREA

BVCP Area: OUTSIDE PLANNING AREA

CEAP Status: to be finalized in 2019 if required

Project Description

Wittermyer Ponds – this facility consists of multiple reservoirs planned for potential use in terms of city water exchanges. Alternatives for improving the ponds to reservoirs will be considered for final implementation.

Project Phasing

Alternatives Study & CEAP: 2019

Design & Construction: 2020-2021.

Public Process

CEAP in 2019. Typical review by WRAB and CC during CIP

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Collaborate with Boulder County and any other affected landowners depending on the location of the outlet structure and outcome of the alternatives analysis.

Change From Past CIP

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$0	\$100,000	\$492,685	\$4,926,849	\$0	\$0

Funding to Completion \$0

Future Unfunded \$0

Total Funding Plan: \$5,519,534

Additional Annual Operating and Maintenance

Additional Annual O&M: \$50k

Funding Source for O&M:

Additional Annual O&M Description:

Est. as 1% of construction cost (to be confirmed)

UTILITIES

Project Name: Zone 1 Transmission Pipes

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE

Department: PWWATER UTILITY

Project Number: 610WA00200

CEAP Required: No

Subcommunity: SYSTEM-WIDE

BVCP Area: SYSTEM-WIDE

CEAP Status:

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. Funding is in the CIP to develop a program to inspect, prioritize and begin replacement of the transmission pipes, (pipes that are 14" diameter and larger).

Project Phasing

\$626,601 annual budget starting in 2020 and escalated by inflation. Will mirror the City's annual distribution main replacement program.

Public Process

Neighborhoods are notified a couple of weeks in advance of the construction and on the water info website.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

City & County Transportation, City & County Open Space, City Development Review, City Planning, City Flood, City Wastewater, Xcel, Century Link, BNSF, Private Developers, BVSD, RTD, small water districts and Ditch Companies.

Change From Past CIP

No

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$0	\$0	\$0	\$0	\$626,601	\$651,665	\$677,732	\$704,841

Funding to Completion \$0
Future Unfunded \$0

Total Funding Plan: \$2,660,839

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

1 or 2 dozen extra valve operations by maintenance staff annually.

UTILITIES

Project Name: Zone 2 Transmission Pipes

Project at a Glance

Project Type: CIP-CAPITAL MAINTENANCE
Department: PW/WATER UTILITY
Project Number: 610WA00400
CEAP Required: No
Subcommunity: SYSTEM-WIDE
BVCP Area: SYSTEM-WIDE
CEAP Status:

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. Funding is in the CIP to develop a program to inspect, prioritize and begin replacement of the transmission pipes, (pipes that are 14" diameter and larger).

Project Phasing

\$909,016 annual budget starting in 2020 and escalated by inflation. Will mirror the City's annual distribution main replacement program.

Public Process

Neighborhoods are notified a couple of weeks in advance of the construction and on the water info website.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

City & County Transportation, City & County Open Space, City Development Review, City Planning, City Flood, City Wastewater, Xcel, Century Link, BNSF, Private Developers, BVSD, RTD, small water districts and Ditch Companies.

Change From Past CIP

No

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$205	\$0	\$0	\$0	\$909,016	\$945,377	\$983,192	\$1,022,519

Funding to Completion \$0
 Future Unfunded \$0

Total Funding Plan: \$3,860,309

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0
Additional Annual O&M Description:
Funding Source for O&M:

1 or 2 dozen extra valve operations by maintenance staff annually.

UTILITIES

Project Name: Zone 3 Transmission Pipes

Project at a Glance

Project Type:	CIP-CAPITAL MAINTENANCE	Subcommunity:	SYSTEM-WIDE
Department:	PWWATER UTILITY	BVCP Area:	SYSTEM-WIDE
Project Number:	610WA00500	CEAP Status:	
CEAP Required:	No		

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. Funding is in the CIP to develop a program to inspect, prioritize and begin replacement of the transmission pipes, (pipes that are 14" diameter and larger).

Project Phasing

\$2.5M in 2018 to complete initial Zone 3 upgrade.
 \$467,460 annual budget starting in 2020 and escalated by inflation. Will mirror the City's annual distribution main replacement program.

Public Process

Neighborhoods are notified a couple of weeks in advance of the construction and on the water info website.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

City & County Transportation, City & County Open Space, City Development Review, City Planning, City Flood, City Wastewater, Xcel, Century Link, BNSF, Private Developers, BVSD, RTD, small water districts and Ditch Companies.

Change From Past CIP

\$2.5M in 2018 to complete current Zone 3 project. Restart in 2020.

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Water Utility	\$161,218	\$1,038,983	\$2,500,000	\$0	\$467,460	\$486,158	\$505,605	\$525,829

Funding to Completion \$0
 Future Unfunded \$0

Total Funding Plan: \$5,685,253

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

1 or 2 dozen extra valve operations by maintenance staff annually.

UTILITIES

Project Name: Greenways Projects

Project at a Glance

Project Type: CIP-CAPITAL ENHANCEMENT

Department: PW/STORMWATER & FLOOD UTILITY

Subcommunity: SYSTEM-WIDE

Project Number: 610GW00000

BVCP Area: SYSTEM-WIDE

CEAP Required: No

CEAP Status: N/A

Project Description

This funding will provide Utilities contributions to the overall Greenways Program. Funding will be opportunistic and prioritized with other funding in the Greenways CIP. These funds will be combined with funding from the Transportation and the Lottery Fund. This project is for an ongoing funding program.

<https://bouldercolorado.gov/water/greenways-program>

Project Phasing

This funding leverages outside funding or funding for other projects in order to meet the objectives of the Greenways Program.

Public Process

All Greenways projects are coordinated through the Greenways Advisory Committee (GAC). Public hearings will be scheduled through the Community and Environmental Assessment Process (CEAP) for individual projects.

DET/Impact Fees

Interdepartmental and Interagency Collaboration

Projects will be coordinated through the GAC which is made up of representatives from 6 advisory boards that have an interest in the Greenways objectives.

Change From Past CIP

none

Capital Funding Plan

Fund(s)	Expended through 2016 Actuals	Revised 2017 Budget - Current Year	2018 Budget	2019	2020	2021	2022	2023
Lottery	\$0	\$151,067	\$151,067	\$151,067	\$151,067	\$151,067	\$151,067	\$151,067
Stormwater & Flood Mgt Utility	\$0	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500
Transportation	\$0	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500	\$97,500
							Funding to Completion \$0	Future Unfunded \$0

Total Funding Plan: \$2,422,469

Additional Annual Operating and Maintenance

Additional Annual O&M: \$0

Funding Source for O&M:

Additional Annual O&M Description:

none



5A | CITYWIDE INFORMATION SECTIONS: CAPITAL PLANNING, PRIORITIZATION & GUIDING PRINCIPLES

CAPITAL PLANNING PRIORITIZATION AND GUIDING PRINCIPLES

Boulder's capital planning is built on the community's vision and 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 (BVCP) 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.

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. The figure below illustrates the relationship between the Sustainability Framework, BVCP, PBB, Subcommunity and Area Plans, Master Plans, and the CIP.



The review process of the CIP undertaken by individual departments, the Interdepartmental Peer Review Team, and the Executive Budget Team ensure the departmental CIPs are consistent with the CIP Guiding Principles. This is reinforced by Advisory Board and Planning Board review and recommendation for consideration by the City Council.

CAPITAL PLANNING, PRIORITIZATION & GUIDING PRINCIPLES

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 and city Master Plans. 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 Sustainability Framework Goals:**
 - Accessible and Connected Community: improve and maintain mobility systems, infrastructure networks, and access to information
 - Economically Vital Community: provide infrastructure and amenities supporting employers and economic diversity
 - Environmentally Sustainable Community: promote natural resource and energy conservation; employ sustainable construction practices; and utilize renewable resources
 - Healthy and Socially Thriving Community: provide recreational, cultural, educational, and social opportunities that support physical and mental well-being; and facilitate inclusive community engagement
 - Livable Community: provide safe and well-maintained public infrastructure and services and enhance neighborhood livability
 - Safe Community: ensure timely response to emergencies and natural disasters; foster a climate of safety, maintaining and improving public safety and security
 - Good Governance: utilize effective and efficient use of public funds, maintaining a strong fiscal foundation; leverage external investments; promote community partnerships; and promote stewardship of human, information and physical assets.
- 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 focus on capital investments for sustaining or improving maintenance of existing assets based on consistent asset assessment principles and practices, as well as balance needed investments for enhancements or new facilities to support levels of service outlined in master plans.**
- 7. Capital programming should maximize efficiency of investments demonstrated by measurable cost/benefit analyses and coordination of projects across departments within and across funds.**

CAPITAL PLANNING, PRIORITIZATION & GUIDING PRINCIPLES

The following information provides more detail from each department's CIP prioritization process and lists relevant plans that inform capital planning.

COMMUNITY VITALITY

As a department created in late 2015, Community Vitality does not yet have a master plan but anticipates completing one in 2018. Projects are included in the CIP based on stakeholder interest and necessary maintenance of capital assets.

The Downtown/Pearl Street Mall improvements are prioritized based on an inventory of all streetscapes and amenities in the downtown area (identification of assets, useful life of each, estimated cost to repair/replace) generated by a Downtown Improvement Plan Task Force with input from Parks and Recreation (P&R) as well as Facilities and Assets Management (FAM). Funds from the Downtown Commercial District Fund are deposited annually in a Facility Repair and Replacement fund administered by FAM to ensure availability when needed. The replacement funding is allocated as amenities age and/or need replacement or repair. In general, Downtown Commercial District funds are applied to above-ground amenities and P&R funds are applied below-grade (e.g., irrigation, bricks).

In 2017 Community Vitality completed a CAGID Parking Structure Asset Management Plan for the five downtown facilities. Based on the plan recommendations, the highest priority projects for 2018 are the stairwell replacements at the 15th & Pearl and 11th & Spruce garages. The plan also provides comprehensive information to update the annual amount allocated to major maintenance for the garages.

FACILITIES AND ASSET MANAGEMENT (FAM)

Projects undertaken by FAM can be identified in department master plans or studies, such as the Civic Area Plan, Municipal Service Center Master Plan, Police Space Study and Fire Response Mapping. In 2016, FAM completed asset assessments on 20 of the 138 facilities under its responsibility and in 2017, assessments were completed on the city's radio infrastructure and for city facilities as they relate to the Civic Area and the Alpine-Balsam area. Critical systems that are backlogged, such as roofs and HVAC systems, continue to be programmed earlier in the CIP with an eye towards meeting the climate commitment goals by reducing the use of electricity and natural gas.

In accordance with 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 (e.g. necessary to sustain the most basic core of city services such as public health and safety) and type of work. Should a higher priority project need arise during the current year and future years, projects are reprioritized, to address an immediate health and safety need.

FIRE AND RESCUE

The fire station projects are guided by strategies and initiatives in the 2012 Fire-Rescue Master Plan. All listed projects help the Fire Department maintain and improve public safety. Proper fire station location improves accessibility to services provided to the community by the Fire Department and ensures a timely response to emergencies occurring in the neighborhood.

CAPITAL PLANNING, PRIORITIZATION & GUIDING PRINCIPLES

Projects proposed for funding as well as those listed in Unfunded Needs are prioritized 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 impact to the emergency response system based on location of the building as well as the type and location of resources. It has also been noted that the current station location is susceptible to flooding. The remaining facilities' positions on the unfunded list reflect the degree to which each station does not fulfill the department's needs for effective, efficient and safe fire station design.

In the fall of 2014, the City of Boulder hired Trestle Strategy Group to conduct a space needs assessment of Fire Station 3, based on recommendations of the 2012 master plan update which identified Station 3 as the highest priority. The master plan update also recommended an evaluation of the location, size and design of all our fire stations for effectiveness. Station replacement prioritization is based on preliminary analysis of our stations' age, size, and location in relation to emergency response.

GREENWAYS

The City of Boulder Greenways system is comprised of a series of corridors along Boulder Creek and its 14 tributaries. The Greenway corridors 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.

Most of the Greenways projects in the CIP leverage outside funding (such as from the Urban Drainage and Flood Control District or Federal Transportation funds) or interdepartmental funding (such as Transportation Division funds) and 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 which seek to be sustainable and are intended to reduce future maintenance.

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 flood mitigation plans, the Comprehensive Flood and Stormwater Master Plan and the 2011 Greenways Master Plan.

INFORMATION TECHNOLOGY

The IT funding study conducted in 2015 reaffirmed the need to create an organization wide savings plan for software replacement, inclusive of both enterprise wide systems as well as departmental business tools. A major update to the IT Strategic Plan is currently underway covering the period from 2018 to 2023 that will inform future capital needs and priorities.

LIBRARY AND ARTS

In 2017, the library engaged the community through an online survey, a series of focus groups and community meetings to provide input for the update of its Master Plan which is due for completion at the end of the year. Early results show the community's continued interest in the unmet capital project objectives from the 2007 Library Master Plan (e.g. a full North Boulder Branch Library) as well as new projects (e.g. expanded makerspace, library service to Gunbarrel, and more investment in collections).

CAPITAL PLANNING, PRIORITIZATION & GUIDING PRINCIPLES

Future and on-going capital needs will be identified and prioritized through the updated Library Master Plan, the 2009 Library Facilities Sustainability Study and the 2015 update focused on the Main Library, the Community Cultural Plan, and the Public Art Policy. The library coordinates with FAM to identify and prioritize renovation and major maintenance projects for library facilities (e.g. Main Library restroom renovation and a facility restoration plan for the Carnegie Library for Local History). The department works to leverage outside funding sources where possible, and collaborates with other city departments to efficiently leverage internal resources and expertise.

OPEN SPACE AND MOUNTAIN PARKS (OSMP)

An important theme in the 2018-2023 CIP is an increased investment in taking care of existing infrastructure. OSMP recently formalized investments in agricultural, historic, and cultural asset maintenance and management through creation of programs that provide annual funding in the OSMP CIP. In 2018, OSMP will have similar investments in ecological system maintenance, facilities maintenance and major trail maintenance. The priorities of these programs will be informed by assessments taking place through 2017, including a facilities assessment and a trails condition study. OSMP Campus Relocation will be funded in the CIP for a third year, with annual funds programmed through 2023. This responds to the need to address inadequate space and infrastructure to support OSMP staffing, vehicles, equipment and materials. Projects implementing the North Trail Study Area Plan and investments in new facilities beyond current infrastructure are incorporated into the CIP.

As OSMP increases its investment in stewardship and maintenance programs, it also continues a significant real estate acquisition program that is connected to regional partnerships. The 2018-2023 CIP represents a shift in the real estate acquisition program, which has been funded at \$5.4M annually for several years. This funding will be \$4.5M in 2018, with additional adjustments in later years to account for a partial sunset of the Open Space sales tax and a potential future bond issue. The land system that new acquisitions will create in accordance with the approved Acquisition Plan will be similar in character as exists today. It will range from natural lands management, striving to balance preservation of valuable and unique ecosystems with access and passive recreation; to agricultural and cultural lands that support livestock and local farming; to open lands providing a defining border and character for the Boulder community.

Ongoing assessments of facilities, trail conditions, and space needs will impact the 2018-2023 CIP, as will a departmental shift towards system stewardship and taking care of existing infrastructure. As the organization transitions, adjustments may be made in the out years of the CIP while the OSMP fund remains fiscally sound.

PARKS AND RECREATION

A principle objective of the current Parks and Recreation Master Plan 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 CIP are intended to improve ongoing maintenance needs by reducing the backlog of deferred maintenance projects that have increased maintenance over time. Projects such as Aquatics Facility Maintenance and the Recreation Facility Strategic Plan strive to improve long-term operational needs and protect existing assets while reducing annual operation and maintenance costs.

CAPITAL PLANNING, PRIORITIZATION & GUIDING PRINCIPLES

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 community's overall greenhouse gas (GHG) 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.

The department has also initiated Asset Management Best Practices through the use of Facility Condition Index (FCI) and an Asset Priority Index (API) to refine prioritization of projects. These include the following additional criteria that are reviewed by the department prior to project funding:

- **Economic Impact to the Community** - This criterion asks you to think about how the asset contributes economically to the community. Does it increase property values or provide for an activity that will generate income for businesses.
- **Substitutability** - This measure considers the uniqueness of the asset or the impact if the asset were lost, destroyed, or disposed of.
- **Resource preservation** - Asset plays a direct role in an agency's natural and/or cultural resource management programs or improves the ecological functions for the surrounding community
- **Use** - Asset facilitates the highest level of affordability, accessibility, and ease of use by all demographic segments of the community.
- **Community Benefit** - Asset supports community and social values of the department.

POLICE

Capital needs are identified in the Police Master Plan and are prioritized based on critical need. The department projects help protect community members as well as providing service and safety. Leveraged funding is accessed where possible, and the department works collaboratively with multiple other departments where possible, such as in the comprehensive approach to replacing radio infrastructure, to maximize public safety and minimize duplicative efforts and costs.

Replacement of the radio infrastructure is the highest public safety priority, and if not funded by the renewed capital improvement sales tax, other funding will need to be identified. Of the other identified unfunded needs, the Multi-Purpose Light Rescue Vehicle and Incident Command Vehicle are the highest priority to fund as both are needed in emergency situations to provide both community and officer safety.

TRANSPORTATION

The Transportation Master Plan (TMP) Budget Guiding Principles include focusing on maintenance and safety of the existing system, leveraging external funding and supporting community sustainability goals.

Key Guiding Principles include the following:

- As top priority, maintain and operate the existing, valuable multi-modal system, including investments in safety.

CAPITAL PLANNING, PRIORITIZATION & GUIDING PRINCIPLES

- 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.

The TMP calls for developing a balanced multimodal system that offers transportation choices. The 2014 TMP stated priorities are the following:

- Priority #1 - system operations, maintenance and travel safety
- Priority #2 – operational efficiency improvements and enhancement of the transit, pedestrian and bicycle system
- Priority #3 - quality of life, such as sound walls and traffic mitigation
- Priority #4 - auto capacity additions (new lanes and interchanges)

UTILITIES

Master Plans for each of the city's three utilities focus on sustaining and improving existing infrastructure systems, increasing efficiency and planning for adequate funding to care for essential systems. More detailed plans have been developed for major functional areas. Current Utilities Division master plans include:

Water

- Source Water Master Plan – 2009
- Treated Water Master Plan– 2011
- Water Utility Master Plan) – 2011

Wastewater

- Wastewater Collection System Master Plan – 2016
- Wastewater Utility Master Plan – 2010

Stormwater/ Flood Management

- Stormwater Master Plan -2016
- Comprehensive Flood and Stormwater Master Plan – 2004
- Various individual Drainageway mitigation plans

These master plans include recommendations for CIP projects over a 20-year period. The overall program and funding priorities are reflected in the timing of projects over the six-year CIP which is informed by master and mitigation plan recommendations 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.

CAPITAL PLANNING, PRIORITIZATION & GUIDING PRINCIPLES

In addition, 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
- 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
- Opportunities to leverage outside funding.

Ninety percent 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.



5B | CITYWIDE INFORMATION SECTIONS: STRATEGIC PLANNING FOR UNFUNDED NEEDS

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
- 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. 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 yet returned to where it was in 2000. Furthermore, the purchasing power of current funding is significantly less than in 2000.

Continued and ongoing CIP funding exists in certain areas through enterprise funds (e.g. Water, Wastewater, Stormwater/Flood funds), funds with dedicated tax revenues earmarked for capital investment (e.g. Permanent Parks fund) and funds with dedicated taxes or fees intended to ensure that growth pays its way (e.g. Development Excise Tax and impact fees). These sources are dependent on numerous factors, including economic conditions and approved utility rates, and cover only a portion of capital needs in the city, however, they have been steady sources for capital investment over time.

RECENT INCREASES IN CAPITAL FUNDING

In 2011 the city engaged in a capital investment strategy. The result of this was a voter approved capital bond, which provided over \$50 million dollars for capital investment in the city, largely focused on deferred maintenance.

STRATEGIC PLANNING FOR UNFUNDED NEEDS

The 20-year debt service for this is being covered from operating General Fund dollars. A second round 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.

City staff incorporated information learned from the 2013 Flood in this strategic work. Through the 2015 budget process and in response to community feedback, utility rates were adjusted to perform utility system-wide asset assessment and accelerate maintenance and replacement work, especially in the wastewater and stormwater/flood management areas. This is reflected in current utility CIP funding levels.

In November 2014, Boulder voters passed the Community, Culture and Safety tax. This temporary, 0.3 percent sales and use tax increase over three years has provided more than \$27 million to improve community spaces, bolster cultural projects and organizations, and enhance safety in and around the downtown and University Hill. The passage of this tax addressed only a portion of the capital needs identified in the Comprehensive Financial Strategy (CFS) and was targeted to specific capital enhancements.

In December of 2015 the city secured \$40 million in debt financing to acquire the Boulder Community Health / Broadway campus site, a significant opportunity and capital investment for the future of the city. Increased property taxes resulting from an increased, post-recession assessment in 2015 are being used to cover the debt service for the next 20 years.

POTENTIAL RENEWAL OF COMMUNITY, CULTURE AND SAFETY CAPITAL INVESTMENT FUNDING

In January 2017, the city began work exploring a potential renewal of the Community, Culture and Safety 0.3 percent sales and use tax. The City Manager formed an advisory committee to make recommendations about the specific projects and other details of a potential renewal and community-based non-profit organizations were invited to propose capital projects or expansions to potentially be funded through the renewed tax. The committee prioritized the list of projects and recommended extending the tax for 5 years to fund a diverse package of city and community-based projects based on guiding principles.

Ultimately, the City Council chose to submit a renewal package to Boulder voters for 4 years that includes a mix of city and community-based projects that were recommended by the committee. Boulder voters will consider the tax extension in November 2017 and if approved, the package of projects will be incorporated into the 2019 CIP. The projects recommended for funding with the 4-year tax extension are identified in the attached Table A of unfunded needs.

STRATEGIC PLANNING FOR UNFUNDED PROJECTS

Moving forward, the intention is to build on the efforts of the past decade and establish a purposeful and continuous process for capital investment to support the city's vision. City departments have taken initial steps by performing a citywide facility and asset assessment. Next steps include developing an ongoing process for planning, funding and scheduling necessary maintenance and replacement of all capital assets. The process is underway and is expected to take a few years to complete with the goal of having a strategic approach to citywide capital planning that is integrated with the city's comprehensive plan and long-term vision.

STRATEGIC PLANNING FOR UNFUNDED NEEDS

Finally, in conjunction with ongoing operating analysis and the review of the long-term financial structural gap, and understanding capital funding gaps identified through the asset assessment and capital strategy work, 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

The attached tables outline identified unfunded and emerging needs. Table A includes the city projects identified to be funded by the renewed sales and use tax. Table B includes other longer-term unfunded and emerging needs. These items have been identified over time from the capital investment strategy work, department strategic and master plans, citywide analysis, and public input. The lists have not been prioritized nor are they in any priority order. They are not exhaustive (and dollar amounts are rough estimates where they are available at all), but rather they illustrate the challenges and opportunities that lie ahead. Existing and future funding is anticipated to be able to address the emerging and long-term capital needs in Utilities and OSMP, although funding constraints impact the timing of capital investment.

It is anticipated that the upcoming work on an asset assessment inventory, in conjunction with ongoing capital investment strategic work and Master Plan updates, the updated Boulder Valley Comprehensive Plan, and near-term Area Plans will lay out a more comprehensive list of unfunded capital, as well as options to address the needs. Along with the strategic approach noted above, the city will be considering various funding options, including the potential for regional partnerships and public/private partnerships, to meet community priorities in capital investment.

STRATEGIC PLANNING FOR UNFUNDED NEEDS

Table A: CITY PROJECTS RECOMMENDED BY ADVISORY COMMITTEE FOR FUNDING WITH RENEWED CAPITAL IMPROVEMENT TAX

Project Name	Est. Capital Cost	Est. New Operating Cost	Comments	In Master/ Strat. Plan?	Level of Planning/Design Completed
PUBLIC SAFETY					
Radio Infrastructure*	\$6M	Similar to current	Capital costs for a new radio system and the support systems for the radio infrastructure, including site improvements and backup systems to support peak functionality. Includes funding for Incident Command Vehicle as communications center.	Yes, Fire and Police MPs	High – Assessment completed, performance-based RFP likely, with little design needed
Relocate Fire Station #3	\$12.5M	\$500K	Current Fire Station 3 is outdated, inefficient, undersized and located in the 100-year flood plain. Relocation would allow for better service delivery to a significant part of the city that is not currently within a four-minute drive time of any of our fire stations. Relocation out of the flood plain would allow for continued service delivery during flood events. Includes land purchase and new facility.	Yes, Fire MP	Medium – some planning/design done, basic cost estimation performed; detailed design will be needed once site is secured.
PARKS AND RECREATION					
Scott Carpenter Aquatics Facility Renovation	\$4.2M (\$8M Funded)	To Be Determined based on length of season (TBD)	This project provides enhanced amenities for the already planned lap pool replacement, such as: a new bathhouse, family leisure pool, water slides, shade structures and various park and access improvements.	Yes, Top priority in BPR Master Plan, Aquatics Feasibility Plan	Project is planned and only lacks funding to become reality. Concept Plan is complete and final design is underway with construction pending final approval.
TRANSPORTATION / GREENWAYS					
Fourmile Canyon Creek Improvements: 19 th to Broadway	\$3.55M (\$7.85 M funded)		Develop multi-use path connection from 19th Street to Violet Crossing. In conjunction with flood mitigation, the project also provides safer access to Crest View Elementary School, recreational opportunities, and replacement of high priority transportation bridges on Upland Ave and Violet Ave.	YES – TMP, Greenways,	CEAP completed, additional engineering design and project planning will be required
ARTS, CULTURE AND EDUCATION					
Library-North Boulder Branch	\$5.5M (\$2M funded)	In Library Master Plan; update anticipated late 2017	Low – only preliminary cost estimate completed	In Library Master Plan; update anticipated late 2017	Low – only preliminary cost estimate completed
Public Art and Cultural Grants	\$400,000	TBD	Develop and install a series of art projects throughout the city, including installations associated with some projects funded by this tax, as appropriate.	In Community Cultural Plan	NA – Each distinct public art project initiated by this fund will have its own planning and design process.

***Note: The radio infrastructure replacement has been identified as a very significant priority. Should the Capital Improvement Sales Tax Renewal not pass, adjustments to budgets will likely occur to secure funds to implement this project.*

STRATEGIC PLANNING FOR UNFUNDED NEEDS

Table B: WORKING LIST OF UNFUNDED CAPITAL NEEDS FOR CITY SERVICES

Project Name	Est. Capital Cost	Est. New Operating Cost	Comments	In Master/ Strat. Plan?	Level of Planning/Design Required
PUBLIC SAFETY					
Terradyne Gurkha MPV Light Armored Rescue Vehicle	\$340,000	TBD	The current vehicle is 37 years old and is no longer effective. This type of vehicle is used to safely move officers into emergency situations or remove people during the emergency.		Low – once RFP completed and awarded, vehicle would be purchased
Relocate Fire Station 4 Remodel / Relocate Fire Station 2	\$14.20	TBD	Stations are undersized, inefficient and offer little to no opportunity for expansion at current location. Relocation will bring more of the city within a 4-minute drive time. Cost estimate does not include potential land purchase for relocation	Yes	High – includes general construction cost estimate only
Fire Training Center Phase 3	\$1.2M	TBD	Add one classroom, five offices, a conference room and one "dirty" classroom.		Low – little to no design and cost estimation.
New Public Safety Building	\$25M - \$30M	Unknown at this time	Construct a 25,000-square foot expansion for Police functions, along with associated renovations to the existing facility.	Yes	Medium – Rough estimates for space and cost.
Repair Public Safety Building Parking Lot	\$500,000	TBD	Would not be necessary if new public safety building is approved.	No	Low – little to no design and cost estimation.
PARKS AND RECREATION					
Valmont City Park Development (south of Valmont Road)	\$33.8M (Funded \$4M)	Approximately \$30,000 for phase 1 and \$232K for phase 2 development.	Includes local food opportunities, innovative adventure play features, additional parking, ballfields, disc golf and flexible recreation areas. Phase 1 (10 Acres) - \$6.4M (Funded - \$4M) Phase 2 (65Acres) - \$27.4M (Unfunded)	Top priority for community in BPR Master Plan, PRAB approval and approved Valmont Concept Plan.	Land is already city-owned, Concept Plan is complete and can transition immediately into final design and construction.
Mapleton Park redevelopment	\$7.3M	Minimal change from current O&M costs.	Project will provide new fields at the Stazio Sports Complex and repurpose Mapleton to be more general purpose to meet needs of changing land use near Boulder Junction.	Yes, provides new ballfield development and satisfies park service needs.	Concept plan developed and could easily transition to final design and construction.
Boulder Reservoir South Shore Enhancements and Multi-Use Path Connections.	Phase 1 - \$6 - \$8M (Funded \$4M)	\$40K	Provide a new visitor services center, beach improvements, play areas and concession area. Also include key path connections for recreation and commuters.	Top priority for community in BPR Master Plan, Boulder Res. Master Plan, PRAB approval and Concept Plan.	Land is already city-owned, Concept Plan is complete and can transition immediately into final design and construction.
Community Park Enhancements	\$11.6M	TBD based on amenities that are provided.	Includes the 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 has planned future phases that include additional amenities and recreation areas not including	Included in BPR Master Plan	All of the parks have approved concept plans and would need final site plan for construction.
Athletic Field Improvements	\$16.3M	TBD based on amenities that are provided.	Design and development of new or improved diamond and rectangular athletic fields at existing Parks and Recreation facilities in support of various team sports leagues and multi-use practice field needs. 2016 CIP - \$500k in 2016, \$4M in out years.	Included in BPR Master Plan and recent Athletic Field Study	All of the parks have approved concept plans and would need final site plan to easily transition to construction.

STRATEGIC PLANNING FOR UNFUNDED NEEDS

Project Name	Est. Capital Cost	Est. New Operating Cost	Comments	In Master/ Strat. Plan?	Level of Planning/Design Required
Historic/Cultural Facility Improvements	\$1.6M	Would likely decrease maintenance costs	Conservation and preservation of important historical and cultural assets in the community that are managed by the Parks and Recreation Department.	Included in BPR Master Plan	Minimal design necessary.
CITY SERVICE FACILITIES					
BCH Redevelopment	\$100M rough estimate	Unknown at this time	Planning process is under way. Could include combination of city facilities, housing and community spaces. Will affect and be affected by Civic Area planning..	Yes	Medium – some amount of planning/design done, little cost estimating completed.
BCH Sustainable Deconstruction	\$3.5M	N/A	The city takes control of the BCH facilities at Alpine and Balsam in 2018. Studies are being conducted on the partial re-use. With utilities costing \$1M a year and major repairs and upgrades required, it's prudent to deconstruct a portion or all of this 323,000 square foot facility rather than operate and maintain it.	Yes	Forensic study on re-use estimated to be completed in late Jan 2017
City Service Facilities	\$39M	TBD	Based on the implementation strategy for the Civic Area Plan, and Alpine-Balsam, this could include capital projects towards replacement facilities for New Britain, Park Central, Atrium, 1301 Arapahoe, FAM, and the functions in the	Yes	Low – scenarios developed for which city services go where, but not Council approved until early 2017
Fleet Facility Repairs and Upgrades	\$3M	TBD	The fleet facility is now 28 years old and is in need for major repairs, replacements, and upgrades. The 2016 facilities assessment identified \$1.7 M in system repairs and replacements needed in the building. Additional facility upgrades will promote the use of alternative fuels, reduce redundancy of public fleet facilities in Boulder, and spread out costs with other agencies.	In facilities assessment	Low – but design for repairs and replacements would be minimal. Upgrades will require a design
Repair Municipal Service Center Parking Lots	\$800,000	TBD	Repair deteriorated parking lot and pavement areas at the Municipal Service Center and Fleet Services areas.	In facilities assessment	Low – but little design needed.
Municipal Service Center (MSC) Building	\$4.1M	TBD	The 2016 facilities assessment identified \$4.1 M in repairs and replacement needed in Buildings A and B of the MSC.	In facilities assessment	Low – but little design needed.
Parks Ops Co-location with Public Works	\$5.2M	TBD	Relocate the Park Operations and Forestry service area into the Municipal Service Center (city yards) as part of the Valmont City Park, Phase 2.	Needs to be integrated into the MSC Master Plan Update	Low – little to no design and cost estimation.
OSMP Office and Operational Facilities	\$23.0M	TBD	Recommendation from 2015 OSMP space assessment. OSMP staff is currently assessing needs and potential options. May depend upon Alpine Balsam plan.	Will be in 2018 OSMP Master Plan	Low – little to no design, planning, or cost estimation
Municipal Court Facility	\$5.4M	TBD	Facility space is limited at Boulder County's Justice Center, and the county courts are taking on more services previously provided by state courts. In the future, Boulder County will end its lease with the city municipal court, requiring another facility. A space needs analysis identified a need for a 12,000 SF facility.	Yes	Low – no location determined yet.
Facilities maintenance backlog	At least \$10M	Unknown at this time. Some maintenance could result in operating savings.	Current backlog identified in 2016 facilities assessment in 17 of FAMs 135 facilities. Only \$2.6M was able to be programmed in the CIP due to limited budget.	In facilities assessment	Low – but little design required.

STRATEGIC PLANNING FOR UNFUNDED NEEDS

Project Name	Est. Capital Cost	Est. New Operating Cost	Comments	In Master/ Strat. Plan?	Level of Planning/Design Required
Electric Vehicle Infrastructure – Regional EV Charging System	TBD	TBD	FAM is seeking grant funding for a portion of this.		Low – little to no design, planning, or cost estimation.
Valmont Butte Mill Buildings Preservation	\$2M	TBD	Preservation of the mill buildings would be required as part of the landmark designation for the historically significant mill buildings that remain on site.		Low – would require design and landmarks approval
New Climate Action Plan Goal	\$42M	TBD	This project would include various initiatives for city operations under the General Fund to meet the city's new goal of 80% reduction in greenhouse gas emissions by 2030, from 2008 levels.		Low – conceptual at this point with projects and initiatives to be developed by climate working groups
PUBLIC UTILITIES					
Boulder Energy Future	Transition Costs TBD	Transition Costs TBD	Current funding from utility occupation tax. Transition costs will require separate source of revenue (bonds).	Yes	Medium – detailed scenarios and cost modeling completed. Uncertainty due to application process.
Broadband	Up to \$140M	Unknown at this time	Multiple models are being considered, cost depends on model used		
HOUSING AND HUMAN SERVICES					
Housing	\$5M to \$7M annually?	TBD	Preservation conversions to affordable housing	Yes	Medium – some amount of planning/design done, basic cost estimation performed
Infrastructure for the Ponderosa Mobile Home Park - Housing	\$2.8 M	TBD	Completed through an annexation agreement; replace failing infrastructure for 68 units.	Yes	Medium – some amount of planning/design done, basic cost estimation performed
West Senior Center Redevelopment/Relocation	\$28M	TBD	Redevelopment/Relocation will be included in Civic Area west bookend plan	Yes – Master Plan is under development, will come to council June 2017	Low – conceptual stage. Depends upon Civic Area plan
Homelessness Service Center	At least \$1.9M	TBD	Identified in 2017 budget hearings, and funds “set aside” within fund balance of General Fund, but not budgeted		
Housing Land Bank	\$20M	TBD	Acquire and hold land to facilitate residential development that furthers the city's housing (and other) goals. Would supplement dedicated affordable housing funding. Operation and management revenue could be positive if property is leased		
PLACEMAKING					
Civic Area	Estimate unknown at this time – will be significant	Unknown at this time (Downtown heavy use park – higher cost per acre)	Includes concepts for East and West bookends. Public market would likely be in early phases and has significant planning. West bookend dependent upon Human Services and Library master plans.	Yes	Medium – cost estimates for public market

STRATEGIC PLANNING FOR UNFUNDED NEEDS

Project Name	Est. Capital Cost	Est. New Operating Cost	Comments	In Master/ Strat. Plan?	Level of Planning/Design Required
Hill Commercial Area Pedestrian Lighting	\$300,000	TBD	Replacement of deteriorating 20-year old fixtures to improve the night-time safety and the attractiveness of the district. Replacement of existing fixture components must be custom manufactured at great expense.	Identified in University Hill Reinvestment Strategy	Medium - some conceptual plans and rough cost estimate
Hill Alleys Master Plan and Improvements	\$5M	TBD	Will likely involve the undergrounding of utilities, storm water management improvements, alley resurfacing, and the addition of trash enclosures, bike parking, lighting and landscaping in partnership with private property owners.	Identified in University Hill Reinvestment Strategy and Alleys Master Plan	Low – little to no design, planning, or cost estimation
University Hill Gateway Features	\$500,000	TBD	Installation of signage to communicate a shift in neighborhood character as visitors travel from areas of the Hill primarily occupied by student renters into areas occupied primarily by families, seniors and other year-round residents.	Identified in University Hill Reinvestment Strategy.	Low – little to no design, planning, or cost estimation
Chautauqua Electric Line Undergrounding	\$3M	TBD	Undergrounding overhead utility lines that surround the neighborhood and that may present a fire danger not only to the neighborhood, but to open space as well.	No	Low – little to no design, planning, or cost estimation

TRANSPORTATION

Railroad Quiet Zone Improvements	\$3M (Funded \$1.5M)	TBD	The objective is to address train horn noise impacting communities in and around Boulder. There are a total of nine crossings, five within the City of Boulder and four adjacent to the city.	Yes	High – some level of engineering design, detailed cost estimates.
HOP Conversion to Clean Vehicles	\$8.25M	TBD	Consider electric (or other clean fuel technology) vehicles. HOP vehicle replacement is a high priority, immediate need.	Consistent with city's climate goals	Low – little to no design, planning, or cost estimation
Bike / Ped Enhancements	\$50M	TBD	Improve safety through safe streets program, safe routes to school, and bike/ped separation in multi-use paths.	Yes	Medium – some amount of planning/design done, basic cost estimation performed
Kittredge Underpass @ Broadway	\$4M	TBD	To address safety and operational issues and concerns along the west side of Broadway	Yes	Medium – some level of engineering design, detailed cost estimates.
Multi-use pathway connections	\$6M	\$25k	Includes connections in the Confluence area, and various important missing links in the pathway system	Yes	High – some level of engineering design, detailed cost estimates.
Civic Center Plan Transportation Projects Implementation	\$15M	TBD	Various projects including new and improved transportation connections to provide for transportation options to and through the civic center area.	Yes	Medium – some amount of planning/design done, basic cost estimation performed
Transit Stop Enhancements	\$1.6M	TBD	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.	Yes	Medium – some amount of planning/design done, basic cost estimation performed

STRATEGIC PLANNING FOR UNFUNDED NEEDS

Project Name	Est. Capital Cost	Est. New Operating Cost	Comments	In Master/ Strat. Plan?	Level of Planning/Design Required
ARTS, CULTURE AND EDUCATION					
Main Library Renovation or Relocation	TBD	TBD	Redevelopment/Relocation will be included in Civic Area west bookend plan	Master plan anticipated summer 2017	Low – little to no design, planning, or cost estimation
Library – Gunbarrel Branch	\$3M to \$4M	TBD	Short-term solution could be to lease space.	Master plan anticipated summer 2017	Low – little to no design, planning, or cost estimation
Library Renovations – Gender Neutral Bathrooms	\$500K to \$650k	TBD	Redevelopment/Relocation will be included in Civic Area west bookend plan	Master plan anticipated summer 2017; project supported by Library Commission	Low – little to no design, planning, or cost estimation
Public Art and Cultural Grants	\$300k annually	\$1.2M to \$1.7M annually	Estimate only at this time. Includes funding for new art installations and collection maintenance. Operating cost includes cultural grants and associated capacities	In community cultural plan	Medium – some amount of planning/design done, basic cost estimation performed
Historical and Cultural Plan and Development	\$5M	TBD	Plan and implement improvements to new and existing historic and cultural facilities through community partnerships and funding opportunities.	Consistent with community cultural plan	Low – little to no design, planning, or cost estimation
TECHNOLOGY					
Customer Relationship Management Replacement	\$210,000	TBD	2019-2022 replacement. Some funding identified, but not enough for all needs.		Low – due to rapid evolution of technology, planning would not begin until closer to replacement date.
Web Site Refresh	\$100,000	TBD	2019-2021 replacement. Some funding identified, but not enough for all needs.	Yes	Low – due to rapid evolution of technology, planning would not begin until closer to replacement date.
Enterprise Document Management Replacement	\$1.6M	TBD	2028-2030 Replacement. Some funding identified, but not enough for all needs.	Yes	Low – due to rapid evolution of technology, planning would not begin until closer to replacement date.
Enterprise Resource Planning (ERP) System Replacement	\$7.8M	TBD	2028-2030 Replacement. Some funds identified after bond debt payoff. But not enough for all needs	Yes	Low – due to rapid evolution of technology, planning would not begin until closer to replacement date.
LandLink Replacement	\$3.9M	TBD	2028-2030 Replacement. Some funding identified, but not enough for all needs.	Yes	Low – due to rapid evolution of technology, planning would not begin until closer to replacement date.
Enterprise Asset Management Replacement	TBD	TBD	2030-2032 Replacement Some funding identified, but not enough for all needs.	Yes	Low – due to rapid evolution of technology, planning would not begin until closer to replacement date.

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5C | CITYWIDE INFORMATION SECTIONS: ASSET ASSESSMENT & INVENTORY

ASSET ASSESSMENT / INVENTORY

In order to honor the commitment to “taking care of what we have” the city has committed to maintaining a coordinated, organization-wide condition assessment that will identify ongoing capital needs necessary to maintain infrastructure, assets, and facilities for a sustainable community, thus informing strategic investments that support community priorities.

2017 ASSET ASSESSMENT

One of the principles of asset management is establishing benchmark standards for each asset to achieve community desired conditions. Building on work performed in 2016, several city departments are completing facility inventories in 2017.

ASSET ASSESSMENT PROCESS

On-going efforts have focused on development of an Asset Management System (AMS) that utilizes best practices for the life cycle design, development, operations, repair and disposal of built assets. To guide this development, best practices from three sources from leading communities have been adopted. In addition, analysis of the asset inventory data as it relates to funding models is being conducted by Facilities and Asset Management (FAM) to evaluate its current funding model for facilities.

The facilities portfolio is typically the most valuable asset that organizations manage and are considered critical to the execution of the organization’s mission. Updating facilities management practices to reflect sustainability and asset management principles for these facilities requires the application of complex, interconnected, and comprehensive facility management practices to the asset portfolio.

This includes:

- Determining the total cost of ownership for the asset portfolio.
- Developing systems and staff knowledge to support agency implementation of life cycle management.
- Approval of a capital investment strategy for the agency that focuses on the organization’s mission and is financially sustainable.



ASSET ASSESSMENT & INVENTORY

RESULTS OF THE ASSESSMENTS

In general, the assessments identified a much higher amount of currently deficient systems and future needs. It will be the baseline for considering a change to how the departments prioritize and fund the maintenance and replacement of these assets.

FAM: In 2016, FAM completed the assessment of 17 city facilities and evaluated 1,680 total items in the facilities with replacement values totaling over \$20.6 million. A total of \$10.6 million was identified as overdue for replacement with \$2.6 million deemed essential items. Those essential items were programmed into the 2017 to 2020 FAM CIP. FAM will continue to program \$50,000 a year in the CIP to continue facility assessments.

In 2017, the results of the assessment will be used to evaluate FAM's funding model for Operation and Maintenance (O&M), Major Maintenance (MM) and Renovation and Replacement (R&R). FAM's current funding model has a goal of annually funding 2.5 percent of a facility's current replacement value for O&M, 1 percent for MM and 1 percent for R&R. Another way to model facility funding, is to use actual facility inventories, which were completed in 2016. FAM and its consultants is undertaking an analysis to determine what the appropriate funding model should be for its facilities and it may be hybrid of the two models. Results of this analysis will be part of the FAM Master Plan update.

The radio infrastructure study was also completed in early 2017, identifying \$3.2 million to replace and upgrade an obsolete radio equipment system and another \$2.8 million for support facilities to create a redundant and resilient emergency communication system.

Community Vitality: The department of Community Vitality (CV) commissioned an outside contractor to conduct an asset inventory and assessment of the five Central Area General Improvement District (CAGID) parking garages during 2016/17. The assessment indicated that all structures are generally in good condition, particularly since the first garage was constructed in the 1970's, and the subsequent facilities were constructed at a rate of one per decade; the last garage was completed in 2005. A 10-year prioritized work plan using the city endorsed BUILDER software program was created. The first five years (2018-2022) contains approximately \$3.95 million in work items (\$1.65M replacement, \$2.3M repair). The immediate term priority projects are the replacement of stairways in the 1500 Pearl garage (1999) and 11th and Spruce (1980's) and the scheduled repairs of the fire protection systems. The CV budget includes an annual budget of \$250,000 for ongoing maintenance projects for the CAGID facilities, including a surface lot. An additional parking facility within the mixed use Trinity Commons housing/church facility project will be completed in 2018 and will be added to the ongoing asset repair and replacement program.

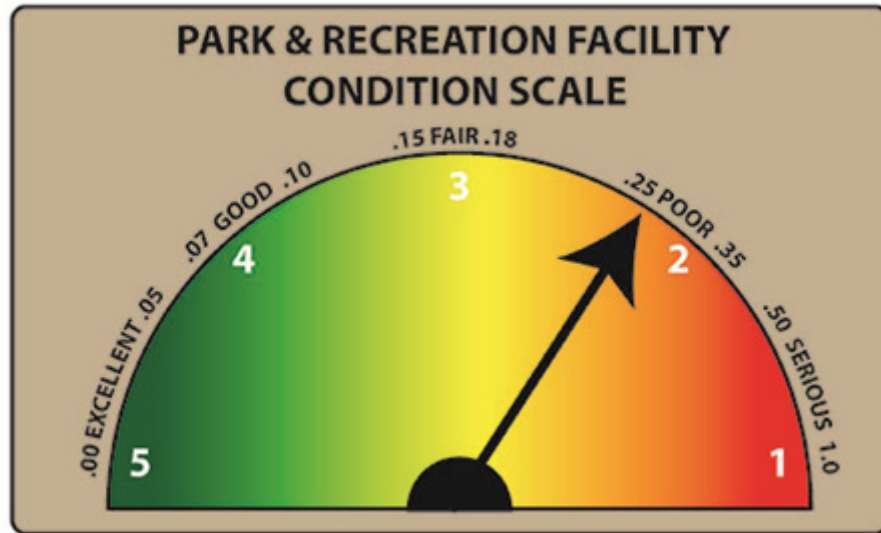
CV staff will be trained on the BUILDER software system that is programmed to track repairs and replacements providing staff with an essential planning and budgeting tool. The funds for the capital replacement and repairs for the garages are within the CAGID fund which is dedicated and restricted to CAGID parking and parking related improvements. Revenues sources include district property tax and revenues from the CAGID facilities.

Parks & Recreation: The Parks and Recreation Department has already begun to address the first three questions above. It has inventoried all major assets department wide, calculated a portfolio CRV of approximately \$200 million, and established a baseline Facility Condition Index (FCI) from which to measure the condition of our portfolio. While the department continues to refine these findings it will now address the latter two questions concerning portfolio performance requirements and asset priorities focused on assets most critical to the department's mission through the CIP process. Ten percent of all park assets have 45 percent of all deficiencies.

The following table illustrates the investment required over 10-years in key facilities to maintain them at 80 percent versus 90 percent condition. By maintaining facilities at a higher standard, the city can increase customer

ASSET ASSESSMENT & INVENTORY

satisfaction while spending less over time. The difference between maintaining facility at 90% over 80% condition saves \$840,972 and provides higher quality facilities with higher customer satisfaction over ten years.



Major Facility	CRV	FCI	90% Standard	80% Standard	Savings	Backlog
East Boulder Community Center	\$ 18,907,343	0.10	\$ 3,079,892	\$ 3,146,599	\$ 66,707	\$ 1,962,118
North Boulder Rec Center	\$ 21,337,047	0.06	\$ 5,166,970	\$ 5,428,246	\$ 261,276	\$ 1,377,900
South Boulder Rec Center	\$ 9,376,617	0.13	\$ 1,642,329	\$ 1,876,919	\$ 234,590	\$ 1,181,104
Reservoir-Admin. Building	\$ 1,500,000	0.31	\$ 837,779	\$ 1,062,297	\$ 224,518	\$ 471,729
Reservoir-Boat House	\$ 800,000	0.14	\$ 129,476	\$ 135,551	\$ 6,075	\$ 109,738
Reservoir-Maintenance Facility	\$ 750,000	0.19	\$ 258,080	\$ 305,886	\$ 47,806	\$ 144,623
Totals	\$ 52,671,007	0.10	\$ 11,114,526	\$ 11,955,498	\$ 840,972	\$ 5,247,212

Water, Wastewater and Stormwater and Flood Utilities: The Utilities Department maintains a critical infrastructure inventory that is used to plan for the relatively short term, 6 year Utilities CIP and the long term, 20 year Utilities CIP. Age, useful life and condition of infrastructure along with risk of failure are taken into account in the development of the replacement/repair schedule.

Storm and Waste Water continue to complete assessments that inventory and plan needed repairs. These began as an inspection effort after the 2013 flood, but were changed to a clean-out and fix program as a result of the damage and plugging of many of the lines.

In the near-term Utilities is looking to:

- Increase proactive planning as much as possible to get priority items rehabilitated or replaced within budget constraints.
- Continue to develop a commercial software program that allows tracking of critical information in a database form and potentially could be used and tied into other applicable city departments.

ASSET ASSESSMENT & INVENTORY

Transportation: The Transportation Division has a functional and efficient system that monitors the condition of the assets that comprise the approximately \$2 Billion (replacement value) transportation system in the City of Boulder. Tracking the condition of the assets within the system allow staff to prioritize work activities and respond at the appropriate level of investment, whether filling a pothole and replacing a sign up to reconstructing a principal arterial or replacing a bridge. The Transportation Division routinely inspects the condition of signals, signs, markings, pavements, sidewalks, multi-use path, and bridges. In general, the average condition of transportation system assets is fair to good, however in order to keep the system at this level or even better will continue to require proactive management of the assets, and using data driven approaches to implementing the right amount of maintenance and repair at the right time within the service of life of a given asset.

Open Space and Mountain Parks: Fall of 2016 saw the completion of the Open Space and Mountain Parks building and structure inventory and condition assessment. The inventory identified 348 structures. A ten-year maintenance plan was developed for each structure. Each building and structure has been categorized by asset class and function. Classes include office, residential, restroom/outhouse, road/trail, parking lot, barn/garage, shelter, fence, shed, commercial/industrial, and ruin. These were further categorized as to function or intended purpose such as agriculture, leased, staff use, public use, and/or historic. Within each classification and functional goal group, each structure was given a priority ranking.

The functional goals and condition assessments were used to develop a ten-year plan for maintenance of each structure. The ten-year plan identified an average of \$550,000 of repairs annually to maintain the structures.

Work has begun on the maintenance repairs identified for 2017 and will be continued in future years. Due to the age and condition of many of the structures, much of the work will require a structural evaluation and/or the renovation will need to be coordinated with the Boulder County Historic Preservation Advisory Board and the City of Boulder Landmarks Board.

Information Technology: The Information Technology department is responsible for the maintenance and reliability of critical technology infrastructure. Currently, there is predictive funding in place for replacement for centrally managed hardware. Hardware assets have an identified useful life, and are replaced at or near the end of that time. The Strategic Technology Plan is in the process of being updated to serve as a guiding document from 2018 – 2023. This document will identify two areas of deficiency in terms of Technology funding. The first is that there is no funding mechanism in place to fund technology upgrades – as opposed to the replacements described above. The second is to include enterprise software systems and large departmental systems in the CIP using a methodology similar to our hardware funding. It is expected that software replacement projects will be added to the CIP plan during the update for the 2019 budget process.

ASSET ASSESSMENT INFORMING CITYWIDE FINANCIAL STRATEGY

The goal of all these efforts is to develop a standardized, prioritized and on-going maintained catalog of needs. This effort will take time and resources; it will require the city to prioritize asset management initiatives as a primary responsibility of our staff, boards, and community.

Life-cycle and maintenance needs studies are essential pieces to inform unfunded needs and future financial strategies. The process will be iterative and on-going to improve transparency with the community about investment needed for long-term infrastructure maintenance in order to balance those needs with the community's desire for new facilities and services. Articulating unfunded needs to the community and decision-makers will help the community prepare for future funding and leveraging opportunities as well as inform long-term CIP funding strategies.



5D | CITYWIDE INFORMATION SECTIONS: PROJECT PLANNING/ COMMUNITY & ENVIRONMENTAL ASSESSMENT PROCESS

Project planning and design for major capital projects takes a project outlined in a master plan and provides more detailed assessment to determine location, function and design alternatives and preferred approaches. The process for review and approval of individual projects is identified in the annual CIP and budget approval process. At this time, various processes may be identified for a specific project.

- **Concept Plan and Site Review:** Concept Plans and Site Plans are reviewed by the interdepartmental staff Development Review Committee, departmental Advisory Boards, Planning Board and City Council (call-up option).
- **Community and Environmental Assessment Process (CEAP):** The CEAP provides a framework for balanced and thoughtful consideration of environmental and social issues in the preliminary planning and design of capital projects. It also provides a forum for public discussion of broad level project issues relative to master plans and overall community goals. It is a tool to aid in the development and refinement of project design and impact mitigation options.
- **Project-Specific Community Process and Design:** Many projects are not required to go through concept and site review and would not benefit from a CEAP process. These typically have a project-specific design and public process to efficiently and appropriately identify community needs, concerns, and preferences. Many projects have been assessed through facility studies, area or facility planning processes, mitigation plans or other studies. The processes are collaborative with multiple city and/or county departments.

PROJECTS RECOMMENDED FOR A CEAP

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. As such, a list of projects identified to undergo a CEAP is provided with the annual capital budget.

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.

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. (For those departments that do not have an advisory board, Planning Board is responsible for reviewing CEAP findings as part of project approval.)

The following capital improvement projects proposed for funding in the 2018-2023 CIP are recommended to complete a Community and Environmental Assessment Process (CEAP).

PROJECT PLANNING/COMMUNITY & ENVIRONMENTAL ASSESSMENT PROCESS

OPEN SPACE AND MOUNTAIN PARKS DEPARTMENT

OSMP Campus Relocation: Following a relocation to an interim office space, staff will begin a multi-year process to determine the long-term location of the department. A CEAP (or other appropriate process) will be useful in identifying and accessing potential campus locations. The proposed CIP funding program described in the project sheet is primarily to support interim space needs.

PARKS AND RECREATION DEPARTMENT

New Neighborhood Park Development: This project will provide funding to implement the development of new park amenities at undeveloped portions of Violet Park in north Boulder as well as Eaton Park in Gunbarrel. These are planned park sites that are currently undeveloped and not meeting standards for park land provision in these neighborhoods. Once the planning begins, a CEAP process will be completed to engage the community in reviewing design options and determine the preferred option that best meets the needs of the community in terms of the design of the park, the amenities that are included.

Valmont South Park Development: As an outcome of the Valmont City Park Concept Plan approved in 2015, this project involves the development of park areas south of Valmont Road to support a wide range of activities and uses. Potential improvements include an adventure playground, picnic area, shelters, multi-use field space, additional parking and opportunities for enhancement to disc golf. These initial improvements will allow for increased park service to the surrounding areas as well as the entire Boulder community. Throughout the planning process a CEAP will be completed to engage the community in reviewing project alternatives related to the final design of the park improvements and determining a preferred alternative that best meets the goals of the project while balancing the many criteria of the CEAP process.

TRANSPORTATION DIVISION

Foothills & Colorado Underpass: This project replaces a deteriorating bicycle/pedestrian overpass bridge with a grade separated, ADA compliant underpass crossing for Foothills Parkway/SH157. A CEAP will be completed concurrently with the corridor study for this area.

19th Street Complete Streets (Norwood to Sumac): 19th Street is an important multi-modal travel corridor in North Boulder. This project involves the design and construction of sidewalk, curb and gutter improvements along the west and east sides of 19th Street from Norwood Avenue to Sumac Avenue.

UTILITIES DIVISION / TRIBUTARY GREENWAYS

Goose Creek 19th to Folsom: This project enlarges the Goose Creek channel for additional capacity in conjunction with stormwater improvements in the area.

Wittemyer Ponds: This project consists of multiple reservoirs planned for potential use for city water exchanges. An alternatives study and CEAP are planned for 2019 with design and construction for 2020/2021.

Boulder Creek Flood Mitigation: As specific projects and their scope are identified the need for a CEAP will be evaluated in the city's annual process.

PROJECT PLANNING/COMMUNITY & ENVIRONMENTAL ASSESSMENT PROCESS

Carter Lake Hydroelectric: The purpose of this project is to analyze potential for a hydroelectric facility on the city's portion of the Carter Lake Pipeline. A CEAP will be completed in 2019 if the hydro alternative is feasible.

Interceptor Sewer Rehabilitation: This project is for the rehabilitation, reconstruction or re-alignment of the city's interceptor sewer, which is at the end of its useful life. A CEAP was started for this project in 2016.

Fourmile – Upstream of Upland Avenue (approved): This project provides flood mitigation along Fourmile Canyon Creek from Upland Avenue to Broadway including multi-use underpasses at Violet and Upland, multi-use path connects, and sediment capture. A CEAP was approved by the Greenways Advisory Committee and City Council in 2016.

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5E | CITYWIDE INFORMATION SECTIONS: GROWTH-RELATED FUNDING

INTRODUCTION

The City of Boulder has a policy that new growth should pay its own way, which is articulated in the Boulder Valley Comprehensive Plan (BVCP). Depending upon the tax or fee, it can be charged on both residential and commercial development and it is assessed at the time of the development's building permit.

Excise taxes are one-time revenues used to fund new infrastructure needed to accommodate new development. Aggregate excise tax levels are subject to voter approval; but as a tax, development excise tax spending requirements are somewhat flexible as taxes are designed defray the general burden of the cost of government. Development excise tax use must still fall within the confines of the voter-approved language. Impact fees are one-time fees similarly used to construct system improvements and expansion, but impact fees have strict legal requirements and tests that must connect the fee directly to the use for which it was collected. Moreover, impact fees can only be used for capital spending. This is why impact fees and development excise taxes are integrated into the Capital Improvement Plan.

OVERVIEW OF CAPITAL DEVELOPMENT EXCISE TAXES AND IMPACT FEES

The city uses three different excise taxes and seven different impact fees to fund new infrastructure to accommodate new development:

Excise Taxes

- Housing Excise Tax: Used to fund the construction, rehabilitation and acquisition of affordable housing; charged on residential and non-residential development.
- Park Land Excise Tax: Used to fund park land purchases; charged on residential development.
- Transportation Excise Tax: Used to fund transportation system capital improvements and enhancements such as road improvements, intersections, bike lanes, underpasses, and pedestrian enhancements. Charged on residential and non-residential development.

Impact Fees

- Library Impact Fee: Used to fund library facilities and materials in the library's collections, charged on residential development.
- Parks & Recreation Impact Fee: Used to fund outdoor parks, recreation center and pool facilities, and support facilities; charged on residential development.
- Human Services Impact Fee: Used to fund senior center facilities and the Children, Youth and Family Center facility; charged on residential development.
- Municipal Facilities Impact Fee: Used to fund additional municipal building space; charged on residential and non-residential development.

GROWTH-RELATED FUNDING

- Police Impact Fee: Used to fund police station facilities, and communication center space; charged on residential and non-residential development.
- Fire Impact Fee: Used to fund fire station facilities, land, and fire apparatus; charged on residential and non-residential development.
- Affordable Housing Linkage Fee: Used to fund additional affordable housing; charged on non-residential development.

The excise taxes and fees above are collected on behalf of a number of city departments including the Library, Parks and Recreation, Human Services, Public Works, Police, and Fire. Specific projects and their descriptions are available in the respective department sections of the CIP document where applicable. The table below summarizes the projected uses of development excise taxes and impact fees for the 2018-2023 CIP timeframe.

EXCISE TAX AND IMPACT FEE STUDY UPDATE AND NEXT STEPS

In November 2016 City Council approved increases to the development impact fees and excise taxes that help pay for new growth, which went into effect on July 1, 2017. Information about the study update can be found on the city's website at: [Development-Related Impact Fees and Excise Taxes](#).

Development Related Excise Tax and Impact Fee Funded Projects: 2018-2023

	2018 Proposed	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected
Municipal Building - Renovation SW	\$ 360,000	-	-	-	-	-
Facilities & Asset Mgmt. Total	\$ 360,000	-	-	-	-	-
New Neighborhood Park Development	-	-	-	-	-	\$ 200,000
Scott Carpenter Pool Redevelopment	\$ 5,300,000	-	-	-	-	-
Parks and Recreation Total	\$ 5,300,000	-	-	-	-	\$ 200,000
30 th St. & Colorado Bike/Ped. Underpass	\$ 1,300,000					
Boulder County/City Joint TMP	\$ 151,000					
Misc. Development Coordination	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
Signal Maintenance & Upgrade	\$ 200,000				\$ 200,000	
TIP Local Match Implementation	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Transportation Total	\$ 2,301,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 850,000	\$ 850,000
Total	\$ 7,961,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 850,000	\$ 1,050,000

