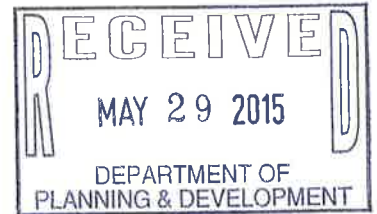




Colorado Springs Utilities  
*It's how we're all connected*

# Memorandum

**To:** Pueblo County Board of County Commissioners  
**From:** City of Colorado Springs and Colorado Springs Utilities  
**Date:** 5/29/2015  
**Re:** Pueblo County Staff Stormwater Information Requests



Pueblo County staff and the Board of County Commissioners have expressed concern over continued compliance by the Southern Delivery System (SDS) with the stormwater related conditions of the SDS 1041 Permit issued by the County. In particular, in a staff Memorandum to the Commissioners dated May 11, 2015, staff advised the Board that “there is adequate justification for the County to issue an Order to Colorado Springs....to show cause why the SDS Permit should not be suspended or amended as a result of its repeal of a dedicated funding mechanism for stormwater control within Colorado Springs and its failure to replace it.” The Memorandum went on to recommend that the County defer any action on the issuance of a show cause order until at least August 1, 2015.

In the “Discussion” section of the Memorandum, staff indicated that Colorado Springs had agreed to assemble and provide information to the County on four specific requests. The material submitted with this memorandum is intended to respond to those four requests. In addition, in a separate request, counsel for the County inquired as to the status of work performed to date on a list of stormwater capital projects dated January 10, 2010 and evidently provided to the County on or about that time. Material responsive to that inquiry is also being submitted at this time.

Colorado Springs Utilities would also call the County’s attention to two additional matters in conjunction with the filing of these responses. First, though request # 1 in the County staff Memorandum refers to “a description of projects to be undertaken in 2015 with the approximately \$19,000,000 recently budgeted by Colorado Springs City Council,” as explained to County staff in a meeting held on May 14, 2015, the \$19M figure referenced in the request arises from Resolution No. 8-15 of the Colorado Springs City council dated January 27, 2015. Section 2 of that Resolution states:

“Section 2. In order to ensure the continued adequacy of efforts to meet stormwater control demands while such a sustainable, long-term approach is developed and implemented, City Council further supports, and calls upon the new mayor and council to support, the dedication, on an interim basis, of the following funds for stormwater control activities: \$8 million per year from general fund monies currently allocated to the payment of aforementioned SCIP bond indebtedness for purposes of meeting stormwater capital project needs; plus an additional \$8 million per year of general fund monies for purposes of meeting both stormwater and capital project needs, as well as MS4 and stormwater operations and maintenance obligations; and \$3 million per year from the budget of Colorado Springs Utilities for activities related to the protection of, or mitigation of impacts to, Utilities’ infrastructure from storm flows through the control of such flows (nineteen million dollars per year total).”

Thus, the then sitting City Council expressed its support for the expenditure of \$19M per year towards “stormwater control activities” and called upon the “new mayor and council”, to be elected in April, 2015, to support such a spending threshold while a “sustainable long-term approach is developed.” In other words, the Resolution was prospective in nature and there was no attempt to modify the 2015 budget, which had already been adopted in the fall of 2014. Thus, in response to this first request, the City is providing a description of its anticipated 2016 stormwater budget proposal, which when combined with the \$3M contribution from Utilities, totals \$19M. The exact nature of the projects to be completed under the Utilities contribution is not yet known, though Utilities will, indeed, be budgeting that sum of money.

The above notwithstanding, the City is also providing to the County its current list of 2015 “capital projects”, including the identification of a recent emergency allocation from City reserves. That said, the list may be modified or supplemented based upon additional emergency needs which may arise due to recent storm events or similar such future events, and/or the future availability of additional federal or state funds.

The second matter of note is an offer by the City and Utilities to meet with Pueblo County staff concerning any additional questions staff may have upon the completion of its review of the provided material. Related to this offer, Utilities would note that it has decided to retain an outside engineering firm to assist it with issues surrounding existing or future stormwater control activities. This firm will fill a role similar to that to be performed by Wright Water Engineers on behalf of Pueblo County. Utilities and the City will endeavor to make both their in-house staffs and any such outside consultants available to meet with the County whenever the need arises. It is our belief that working together we can forge a mutually satisfactory solution.

## **ATTACHMENT 1**

## 2016 Proposed Project List

Project Number	Project Title	Amount
111	King Street Detention Pond (CS-013)	250,000.00
112	South Pine Creek Detention Pond (CS-335)	500,000.00
113	Fountain Creek Stabilization - El Pomar Sports Park (CS-315a/b)	2,000,000.00
114	Sand Creek Stabilization south of Platte (CS-018)	500,000.00
	<b>subtotal</b>	<b>3,250,000.00</b>
	Cheyenne Creek/Cheyenne Run Improvements	1,800,000.00
	Emergency Flood Repair/Failure Projects	1,000,000.00
	Downtown Drainage Improvements	1,300,000.00
	Water Quality Projects	500,000.00
	Drainage Basin Planning Studies	500,000.00
	<b>subtotal</b>	<b>5,100,000.00</b>
	<b>Projects Subtotal</b>	<b>8,350,000.00</b>
	Utilities Nexus Projects	3,000,000.00
	<b>subtotal</b>	<b>11,350,000.00</b>
	Project Management plus O&M	7,650,000.00
	<b>GRAND TOTAL</b>	<b>19,000,000.00</b>

2015 Proposed Capital Project Spend		
Project Number	Project Title	Amount
100	Emergency Drainage Repair Projects (flooding damage,culvert failures)	500,000.00
101	Stormwater Improvements	111,019.00
102	Drainage Basin Planning Studies	47,533.00
103	19th and Dale Detention Pond (CS-001)	14,423.00
104	31st Culvert Replacement	20,482.00
105	Stormwater Design High Priority	578,075.00
106	Drainage Studies (Monument Creek Grant)	150,000.00
107	Detention Ponds 3 and 6	554,955.00
108	Camp Creek Flood Mitigation	1,680,966.00
109	High Priority CIP Projects	1,774,237.00
110	Powers Boulevard Drainage Repairs	300,000.00
	<b>total</b>	<b>5,731,690.00</b>
	<b>2015 Emergency Supplement</b> <b>(approved by City Council on May 26, 2015)</b>	
	1. Installation of box culvert in Rockrimmon open space waterway	
	2. Stanching of overflows in Pebblewood/Chairmonte area	
	3. Grade control at Cottonwood Creek above Academy Blvd.	
	4. Replacement of box culvert to Spring Creek at Academy Blvd.	
	5. Replacement of corrugated metal pipes at key locations	
	(\$1M of total to Parks Dept.) <b>total</b>	<b>5,000,000.00</b>
	<b>GRAND TOTAL</b>	<b>10,731,690.00</b>

*\*Note: This is capital project budget only (excludes O&M and MS4 compliance)*

## **ATTACHMENT 2**

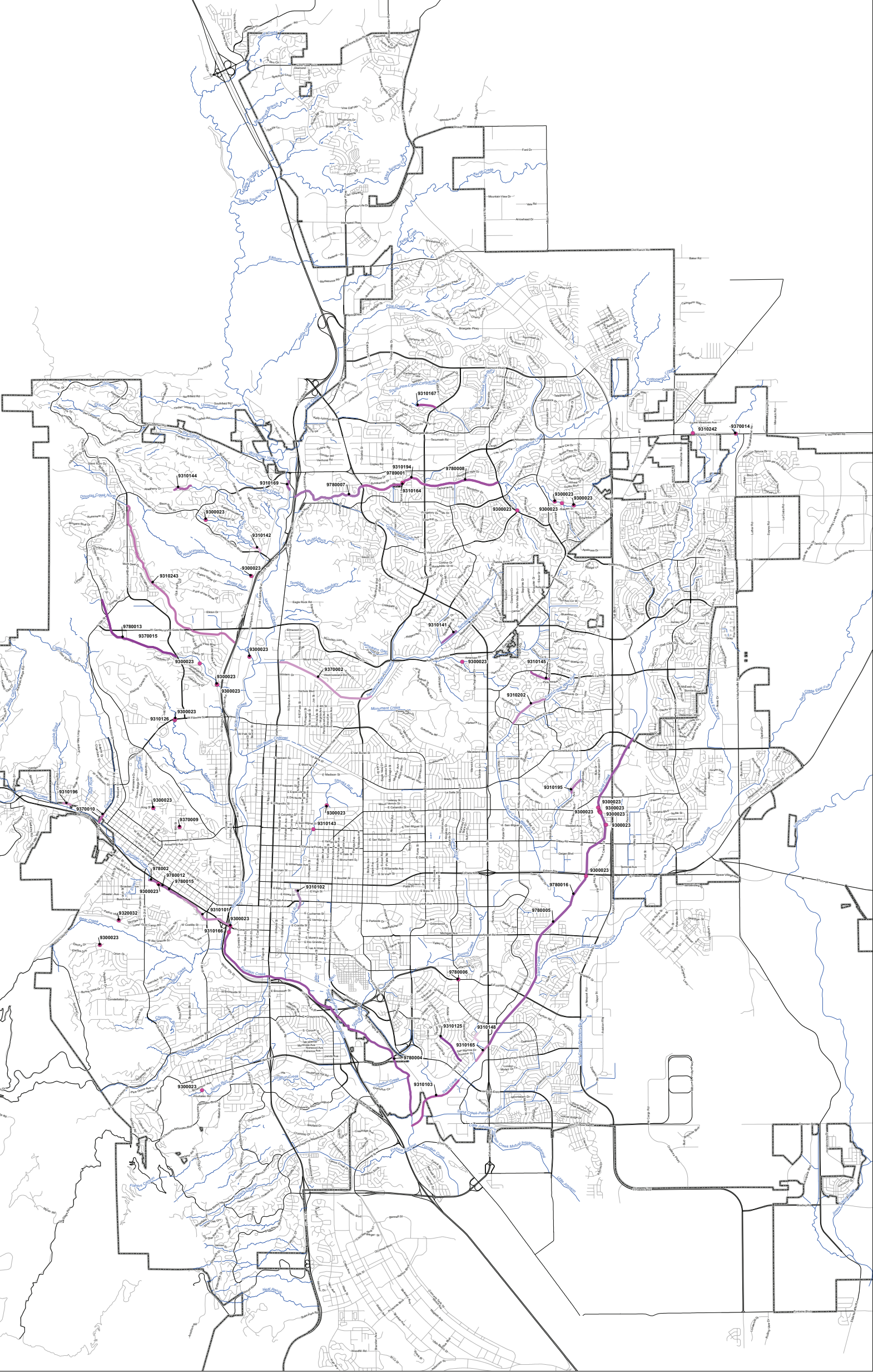








# City Stormwater Project Expenditures (2004-2014)


Mapped Citywide Stormwater Projects	
9300023	September 2013 Flood Repairs
9310101	Fountain Creek Improvements Monument to 21st
9310102	Shooks Run Culverts Downtown
9310103	Sand Creek Channel Improvements Main Stem
9310125	Monterrey Channel and Storm Phase I
9310126	Fillmore Outfalls
9310141	Shadowglen Channel Storm Drainage
9310142	Rockrimmon Delmonico Channel Storm
9310143	Shook Run Uintah Storm Drainage
9310144	N Rockrimmon Allegheny Drainage Improvement
9310145	Candlewood Apartments Channel Storm Drainage
9310148	El Morro Ditch at Chelton
9310164	Cottonwood Creek Chestnut Glen
9310165	Sand Creek Channel Main Stem
9310166	Fountain Creek Drop Structure North Bear Creek
9310167	Rampart Park Channel Repair
9310169	Monument Creek Crib Wall
9310194	Cottonwood Creek Drop Structure
9310195	Rustic Hills Channel Repair
9310196	Colorado Avenue Ridge Rd Drainage Improvement
9310202	West Fork Sand Creek Downstream- Oro Blanco
9310242	Detention Ponds 3 and 6- I
9310243	North South Douglas Creek- I
9320032	Lower Gold Camp Road
9370002	T Gap Floodway Levee
9370009	19th and Dale Detention Pond
9370010	31ST Culvert Bridge Replacement
9370014	Detention Ponds 3 and 6- II
9370015	North South Douglas Creek- II
9780004	Fountain Creek Phase I Improvements
9780005	Sand Creek Main Phase 2
9780006	Fountain Blvd Chelton Rd Intersection Drainage Improvements
9780007	Cottonwood Creek Channel Monument Creek to Academy
9780008	Cottonwood Creek Channel Union to Rangewood
9780009	Sand Creek Main Phase I
9780012	Fountain Creek Restoration Gold Hill Mesa
9780013	South Douglas Creek Restoration Upstream Centennial
9780015	Fountain Creek Gold Hill Mesa
9780016	Sand Creek Improvement and Land Acquisition
9780001	Cottonwood Creek FEMA Grant
9780002	Fountain Creek Restoration Gold Hill Mesa
*Mapped project lines are representations of project limits and may not reflect actual sites of stabilization	
Unmapped Citywide Stormwater Projects	
9310028	Local Drainage
9310063	Drainage Studies
9310168	Design 2004 Storm Drainage Project
9310198	Misc Channel Storm Sewer Repair
9310200	Stormwater Enterprise Study
9310244	Camp Creek Flood Mitigation- I
9370001	Drainage Basin Planning Study Projects
9370003	Stormwater Management Assessment Criteria
9370004	Nexrad Design Storm Analysis
9370006	Fountain Creek Sep
9370008	Stormwater Improvements
9370012	Stormwater Design High Priority
9370013	Drainage Studies
9370016	Camp Creek Flood Mitigation- II
9780001	Stormwater Enterprise Implementation
9780002	Emergency Stormwater Drainage Repairs
9780003	Flood Warning Education and Safety Improvements



Stormwater Project

 City Boundary

 Major Roads

 Roads



Copyright 2015 by the City of Fort Collins, Colorado. All rights reserved. This map is a representation of the City's stormwater project expenditures from 2004 to 2014. The map is not a legal document and should not be used for legal purposes. The City of Fort Collins is not responsible for any errors or omissions in this map.





## **ATTACHMENT 3**



## **Stormwater Program Expenditures — 2004 through 2014**

The stormwater program of the City of Colorado Springs is an important component of the City's comprehensive strategy to build and maintain public infrastructure. The stormwater program protects the lives and property of the citizens of Colorado Springs and the City's neighbors, satisfies federal and state water quality laws and regulations, and preserves and enhances the great natural beauty of Colorado Springs. As this report demonstrates, over many years the citizens of Colorado Springs have invested substantial resources in their stormwater program in order to attain these important goals.

For more than fifteen years, the stormwater program of the City of Colorado Springs has included substantial spending on new flood control and conveyance infrastructure, maintenance and repair of existing infrastructure, and water quality protection and compliance. Over these years, expenditures for the City's stormwater program have come from the City's General Fund, bonds (Springs Community Improvement Program [SCIP]), grants (FEMA and others), and, for a period of time in the mid-2000s, stormwater program fees collected by the City's Stormwater Enterprise, also called the "SWENT." Substantial portions of the City's stormwater infrastructure have also been constructed by the development community and as part of large transportation projects that have stormwater components.

The City has tracked the entirety of its stormwater program spending through its normal budget and financial reporting processes. Nevertheless, in the past this information has been difficult to isolate within traditional City financial reports. For example, past stormwater program spending was sometimes embedded, but not reported separately, in financial reports concerning capital and maintenance expenditures for streets, bridges, and the other components of public works infrastructure. As another example, within the Colorado Springs Department of Public Works, stormwater program spending has been shared between City Engineering and the Streets Division, and, more recently, the Engineering Development Review and Stormwater Department, without being reported separately as specific stormwater program spending amounts.

Moreover, stormwater program expenditures have always taken place in several separate parts of the City, and historically do not appear in a single comprehensive financial report. These expenditures are considerable, and include in particular the substantial stormwater program spending by Colorado Springs Utilities (CSU). Also, over time other stormwater program expenditures have been tracked separately, such as funding from special appropriations and grants. These disparate approaches to stormwater program expenditures have made it difficult to report upon the cumulative funds spent by Colorado Springs in its complete stormwater program.

To make stormwater program spending more clear for the citizens of Colorado Springs, the City began in 2013 to track stormwater program expenditures separately and explicitly in its financial records and



reports. This approach makes it considerably easier today to identify recent expenditures for the City's entire stormwater program.

This report on total stormwater program expenditures from 2004 through 2014 follows upon the City's cumulative tracking of stormwater program expenditures beginning in 2013. This report is built upon a concentrated effort by City financial and operating staff to sift through historical spending records. Staff's goal has been to compile reliable, straight-forward estimates of total stormwater program spending dating back to 2004.

Looking back to 2004 to explain stormwater program spending by Colorado Springs provides citizens with a much clearer picture of the City's comprehensive efforts in this important program. This look back also clarifies the City's changing approaches to stormwater program funding. In this report one can now see a snapshot of stormwater program expenditures as the City geared up for the establishment of the SWENT, as the SWENT collected and put to use stormwater program fees, and as the City funded its stormwater program after the demise of the SWENT. The latter has taken place using funding from the General Fund and from several other sources.

Staff acknowledges that some historic City reports about stormwater program spending were incomplete in significant ways. This typically happened when staff focused solely upon a narrow portion of overall stormwater program spending. One example of this type of error is in a stormwater program presentation given to City Council in July 2012, in which salaries and operating expenses alone were described and many other stormwater program expenditures by the City were omitted.

The City's stormwater program is comprehensive. Expenditures in the stormwater program include creating projects like the City's new flood control ponds, open channels, storm sewer systems, catch basins and inlets, and many water quality protection components and practices. These diverse expenditures are captured in this report. Stormwater program components reflected here include stormwater related transportation, bridge, and roadway projects, stormwater spending by CSU and the Pikes Peak Regional Transportation Authority (PPRTA), and stormwater program infrastructure constructed by the private development community and the Colorado Springs Airport.

Salaries for City staff (Engineering, Streets, and Stormwater Divisions) to implement and manage the stormwater program are also included in this report, as are operating costs to support staff and to cover the costs of capital, maintenance, and water quality programs. In the numbers reported below, actual expenditures for capital projects are included from the City's General Fund, CSU, grant funds, and SWENT accounts. Estimates for developer and PPRTA stormwater expenditures are included, too, and are based on annual inspections and inventories conducted by City staff to satisfy General Accounting Standards Board (GASB) 34 asset management criteria.

This report is presented in three sections: Pre-SWENT (2004-2006), SWENT (2007-2009), and post-SWENT (2010-2014). Tables 1, 2, and 3 illustrate spending in several important categories in a given year. The last paragraph summarizes expenditure totals for the entire 11-year period. Each section explains the reasons for large single project expenditures, while also offering commentary to provide context for the stormwater program expenditures.

### **Pre-SWENT (2004-2006)**

Between 2004 and 2006, stormwater program staff was a part of the City Engineering section of Public Works. The Streets Division provided maintenance and minor repairs for existing infrastructure, and stormwater capital projects were designed and constructed out of the City's General Fund. During this period the City had recently completed and put into use its Drainage Criteria Manual Volume 2 in accordance with its State-issued stormwater quality permit, known as a Municipal Separate Storm Sewer System (MS4) permit.

The City spent nearly \$2.8M on capital projects in 2004, while also providing a match for a Fountain Creek Watershed Study grant. Highlights for stormwater program expenditures in 2005 and 2006 include spending for implementation of SWENT, nearly \$6M spent by CSU on stormwater projects, and completion of the Fountain Creek Watershed Study. The PPRTA began spending money on transportation projects in 2005, and the stormwater program components of PPRTA projects are included in the amounts in Table 1.

**Table 1 – 2004 through 2006 Stormwater Expenditures**

<b>Expenditure/Year</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2004-2006</b>
City Salaries/Operating	\$1,609,974	\$1,791,908	\$1,918,231	\$5,320,113
City CIP	\$2,895,820	\$1,355,898	\$1,907,058	\$6,158,776
CSU Projects*		\$850,000	\$3,600,000	\$4,450,000
SWENT			\$1,004,490****	\$1,004,490
Stormwater Grants	\$624,853	\$788,570	\$0	\$1,413,423
Development and PPRTA	\$8,962,043**	\$7,607,561***	\$6,306,958	\$22,876,562
COS Airport	\$639,545	\$522,524	\$8,082,593	\$9,244,662
<b>TOTALS:</b>	<b>\$14,732,234</b>	<b>\$12,916,460</b>	<b>\$22,819,331</b>	<b>\$50,468,025</b>

\*CSU began tracking stormwater spending separately in 2005

\*\*Stormwater component of development projects only; PPRTA expenditures began in 2005

\*\*\*Stormwater component of development and PPRTA projects (based on lane-miles added)

\*\*\*\*SWENT Implementation Funds

### **Stormwater Enterprise (2007-2009)**

On November 22, 2005, City Council approved the creation of the Stormwater Enterprise, or SWENT. Nearly one year later, City Council adopted a fee rate structure for the SWENT. The SWENT began collecting fees in the first quarter of 2007. The SWENT collected fees from 2007 to 2009, and about half were spent on stormwater program capital projects.

During this time, the City's General Fund continued to cover the costs for the stormwater program's MS4 permit-related activities, as well as updating Drainage Basin Planning Studies. In 2009, SWENT fees



covered the cost of City Engineering staff associated with stormwater program management, as reflected in a significant decrease in the City Salaries/Operating budget. Substantial spending increases in 2008 and 2009 show the time spent in 2006 and 2007 “gearing up” to get programs and projects “shovel ready”, including planning, design, engineering, and land acquisition. Capital project spending highlights include a joint \$2.34M project between CSU and SWENT to address erosion and bank stabilization needs and to protect sanitary sewer crossings near Sierra High School.

**Table 2 – 2007 through 2009 Stormwater Expenditures**

<b>Expenditure/Year</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2007-2009</b>
City Salaries/Operating	\$760,278	\$1,494,484	\$0	\$2,254,762
City CIP	\$792,446	\$1,111,320	\$1,562,635	\$3,466,402
CSU Projects	\$2,970,000	\$7,210,000	\$2,280,000	\$12,460,000
SWENT*	\$6,551,032	\$12,494,947	\$20,521,379	\$39,567,358
Stormwater Grants	\$0	\$85,800	\$0	\$85,800
Development/PPRTA Projects	\$22,086,278	\$3,517,855	\$4,006,219	\$29,610,352
COS Airport	\$2,404,842	\$117,246	\$108,295	\$2,630,383
<b>TOTALS:</b>	<b>\$35,564,876</b>	<b>\$26,031,653</b>	<b>\$28,478,528</b>	<b>\$90,075,057</b>

\*Includes operating and CIP Expenditures

#### **Post SWENT (2010-2014)**

In late 2009, City Council ended SWENT and stopped the collection of SWENT fees. These actions decommissioned the SWENT and a much greater responsibility for funding the City’s stormwater program transferred back to the General Fund.

Since the demise of the SWENT, the source and nature of stormwater program funding has changed from time to time, a condition exacerbated by the Waldo Canyon fire in 2012 and by subsequent recovery efforts. Funding in 2010 and 2011 in part reflects SWENT funds, however. Although collection of SWENT fees ended in 2009, SWENT funds that were already accumulated were rolled over and spent in the stormwater program in subsequent years, as consideration for the City taking on the SWENT obligations. Stormwater expenditures dropped substantially in 2012 as the City shifted responsibility for stormwater from the SWENT to the City’s general fund, recovered from the recession, and grappled with the Waldo Canyon fire. The sharp increase in 2011 PPRTA and development project stormwater expenditures is a result of a large number of arterial widening, residential street, pond, and stream projects reaching completion.

Fire, recovery, and FEMA flood disaster grants were applied for and received by the City in 2012, 2013, and 2014, but most grant expenditures were realized in 2013 and 2014. This is because of the need to plan, design, and construct solutions to drainage and erosion problems caused by the 2012 fire and flooding in September 2013.

**Table 3 – 2010 through 2014 Stormwater Expenditures**

<b>Expenditure/Year</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2010-2014</b>
City Salaries/Operating	\$0*	\$2,429,004	\$2,578,180	\$2,693,830	\$2,523,788	\$10,224,802
City CIP	\$144,372	\$179,228	\$288,711	\$2,759,112	\$8,769,739	\$12,141,161
CSU Projects	\$4,930,000	\$4,860,000	\$2,950,000	\$2,830,000	\$3,910,000	\$19,480,000
SWENT	\$9,485,961	\$2,849,579	\$58,613	\$0	\$0	\$12,394,154
Stormwater Grants	\$0	\$0	\$355,974	\$6,628,110	\$4,635,429	\$11,619,513
Development/PPRTA Projects	\$3,832,426	\$22,678,393	\$968,740	\$3,945,372	\$4,296,154	\$35,721,083
COS Airport	\$0	\$0	\$99,103	\$937,842	\$23,792	\$1,060,737
<b>TOTALS:</b>	<b>\$18,392,759</b>	<b>\$32,996,203</b>	<b>\$7,299,321</b>	<b>\$19,794,266</b>	<b>\$24,158,901</b>	<b>\$102,641,450</b>

\*City salaries and operating were covered by the SWENT

### **Cumulative Summary**

During the 11 year period spanning 2004 through 2014, more than **\$240,000,000** has been spent upon stormwater program management and stormwater projects by the citizens of Colorado Springs. Of that total, the City's General Fund contributed approximately \$40,000,000, the SWENT expended about \$53,000,000, and grants provided approximately \$13,000,000. CSU has protected the City's infrastructure under CSU's management, and provided channel stabilization, with approximately \$36,000,000 of stormwater program improvements. Substantial remaining portions of the City's stormwater program infrastructure were constructed by the private development community and as part of PPRTA projects, and those expenditures amount to about \$88,000,000. Finally, the Colorado Springs Airport spent nearly \$13,000,000 on infrastructure to improve drainage and flood control during the 11-year period.

### **Stormwater Program Outlook – 2015 and Beyond**

Although stormwater program expenditures over the last 11 years within the City have been significant, the outlook for the City's stormwater program planning is influenced by two primary factors. First, the 2013 City of Colorado Springs Stormwater Needs Assessment by CH2M HILL identifies a capital improvement needs backlog of approximately \$535,000,000. The assessment prioritized the capital improvement needs within high, medium, and low priorities based on the condition of the stormwater infrastructure in 2013, but is frequently being updated based on recent storm events and new information. Second, the Colorado Springs City Council approved a resolution in January, 2015 that resolves to spend approximately \$19,000,000 per year on the City's stormwater program, about \$3,000,000 of which will be spent by Colorado Springs Utilities.



STORMWATER FEDERAL EMERGENCY MANAGEMENT (FEMA) GRANTS WALDO FLOOD 9/2013  
9379039 - FOUNTAIN CREEK WATERSHED STUDY  
9379031 - COTTONWOOD CREEK AT GREENCREST PRE-DISASTER MITIGATION PROGRAM  
9379002 - COTTONWOOD CREEK AT VINCENT PRE-DISASTER MITIGATION PROGRAM  
9379003 - NATURAL RESOURCES CONSERVATION SERVICE EMERGENCY WATERSHED PROTECT  
9379004 - 31ST STREET BRIDGE

**\*\*\*** **SOURCE:** 2006 HOUSE INCOME TAX RETURNS, CITY TAXES AND PROPERTY OWNER CONTRIBUTIONS

**\*\*\*** **SOURCE:** 2006 HOUSE INCOME TAX RETURNS, CITY TAXES AND PROPERTY OWNER CONTRIBUTIONS

## **ATTACHMENT 4**



## Draft Project List

04.24.15

**Criteria:** Select high/medium priority projects that protect people and property from flooding, reduce flood volumes and peak flows, and enhance stream stability. Projects should serve the needs of the City and take into consideration our neighbors to the south within the Fountain Creek watershed.

### Projects:

1. CS-315a and CS-315b: Fountain Creek Stabilization along El Pomar Sports Park	\$4.5M
2. CS-314a and CS-314b: Fountain Creek Stabilization from mobile home park to north end of El Pomar Sports Park	\$4.1M
3. CS-018: Sand Creek Stabilization south of Platte Avenue	\$2.0M
4. CS-330: Fairfax Tributary Detention Pond	\$0.4M
5. CS-013: King Street Detention Pond	\$0.3M
6. CS-335: South Pine Creek Detention Pond	\$0.5M
7. CS-333: Rangewood Tributary Detention Pond	\$0.8M
8. CS-308a and CS-308b: Fountain Creek Stabilization Drake Power Plant to S. Tejon St.	\$1.8M
9. CS-309a and CS-309b: Fountain Creek Stabilization S. Tejon St. to Shooks Run	\$2.9M
10. CS-141: Shooks Run Improvements @ Confluence with Fountain Creek	<u>\$0.5M</u>
<b>TOTAL ESTIMATED COST:</b>	<b>\$17.8M</b>

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-314a**

**PROJECT DESCRIPTION**

Name:	Fountain Creek - Mobile Home Park to N end El Pomar Sports Park - High Priority Reach 9 Projects
Drainage Basin:	Fountain Creek
Map Book Grid #:	N6
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	2 Drop Structures, Channel realignment, Brudge Abutment Protection, and bank protection
Summary of Problem:	Erosion at Circle Drive Bridge along banks, extends 800 LF upstream. High vertical banks observed, 10 to 30'
Source Document:	WHPacific. 2009. Fountain Creek Stabilization & Restoration Plan Monument Creek to the Colorado Springs Southern City Limit.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	High

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	16
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>39</b>

**COST**

Best Available Baseline Cost Year:	2011
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$633,807 Updated (2013 Dollars)</b>

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-314b**

**PROJECT DESCRIPTION**

Name:	Fountain Creek - Mobile Home Park to N end El Pomar Sports Park
Drainage Basin:	Fountain Creek
Map Book Grid #:	N6
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	Channel stabilization
Summary of Problem:	Erosion at Circle Drive Bridge along banks, extends 800 LF upstream. High vertical banks observed, 10 to 30'
Source Document:	WHPacific. 2009. Fountain Creek Stabilization & Restoration Plan Monument Creek to the Colorado Springs Southern City Limit.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	Medium

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	16
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>39</b>

**COST**

Best Available Baseline Cost Year:	2011
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$3,538,135 Updated (2013 Dollars)</b>

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-315a**

**PROJECT DESCRIPTION**

Name:	Fountain Creek - N end El Pomar Sports Park to S end El Pomar Sports Park - High Priority Reach 10 Projects
Drainage Basin:	Fountain Creek
Map Book Grid #:	N6
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	Formalize existing drop structure
Summary of Problem:	Erosion along banks adjacent to El Pomar Park
Source Document:	WHPacific. 2009. Fountain Creek Stabilization & Restoration Plan Monument Creek to the Colorado Springs Southern City Limit.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	High

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	16
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>39</b>

**COST**

Best Available Baseline Cost Year:	2011
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$381,991 Updated (2013 Dollars)</b>



**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-315b**

**PROJECT DESCRIPTION**

Name:	Fountain Creek - N end El Pomar Sports Park to S end El Pomar Sports Park
Drainage Basin:	Fountain Creek
Map Book Grid #:	N6
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	Channel stabilization
Summary of Problem:	Erosion along banks adjacent to El Pomar Park
Source Document:	WHPacific. 2009. Fountain Creek Stabilization & Restoration Plan Monument Creek to the Colorado Springs Southern City Limit.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

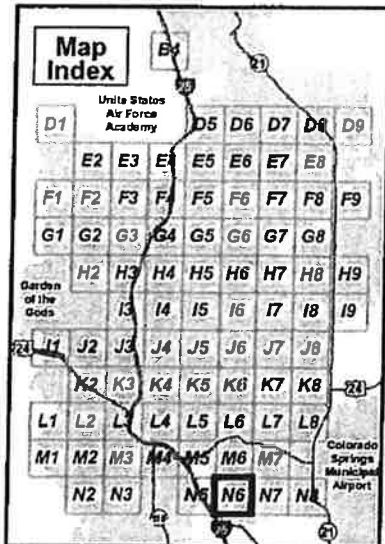
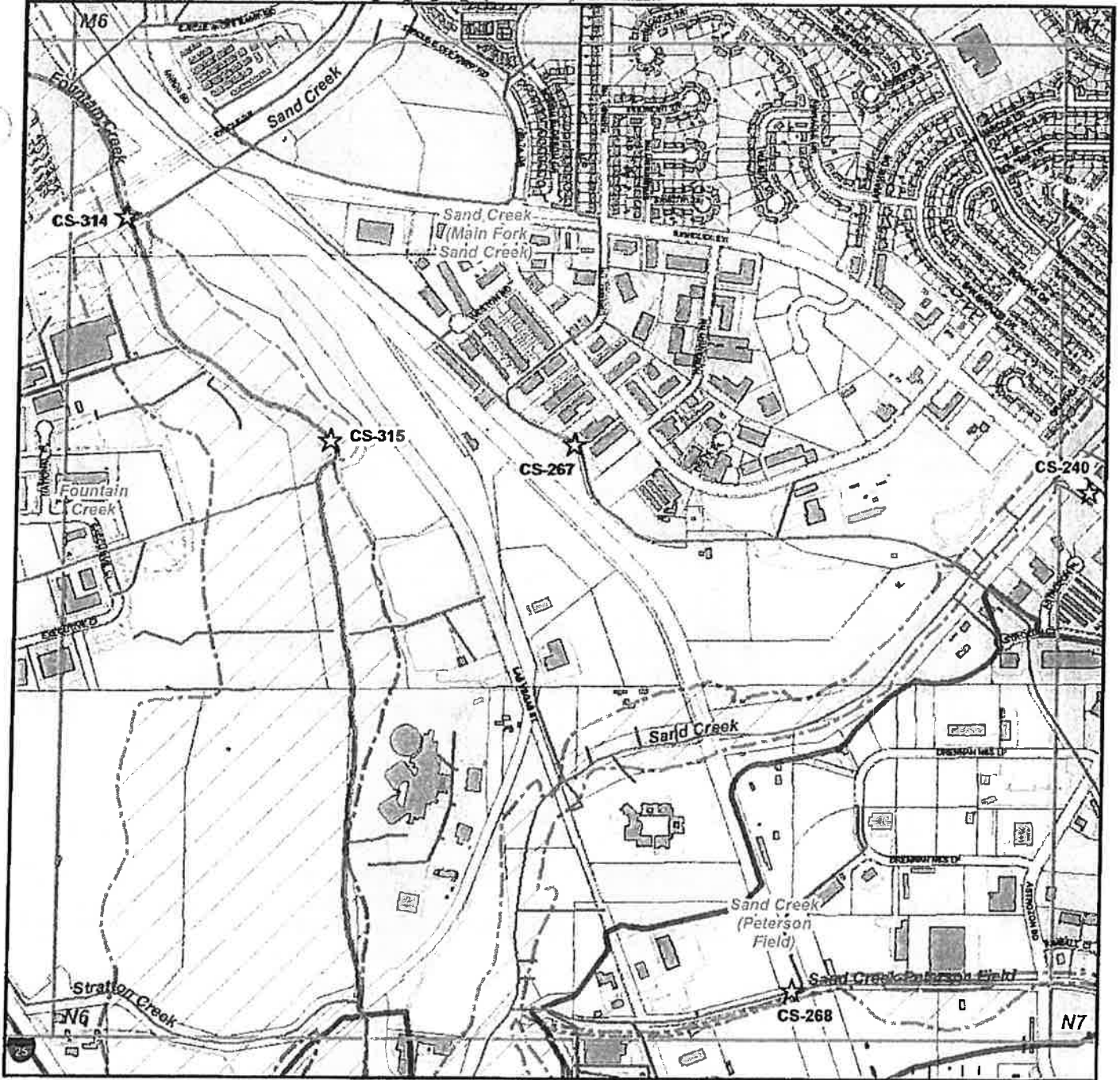
Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	Medium

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	16
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>39</b>

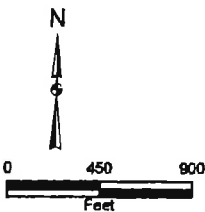
**COST**

Best Available Baseline Cost Year:	2009
% Constructed:	0
Construction Normal or Difficult:	Normal
Project Cost:	<b>\$4,102,163 Updated (2013 Dollars)</b>



### Legend

- |                             |                          |                                       |
|-----------------------------|--------------------------|---------------------------------------|
| ☆ City Projects             | Private                  | Waldo Canyon Burn Area                |
| — Stream Line               | City of Colorado Springs | Regulatory (FEMA) 100-year Floodplain |
| — Stormwater Infrastructure | El Paso County           | Buildings                             |
| Basin                       | State                    | City Ponds                            |
| Watershed Boundary          | Federal                  | B4 Map Grid                           |



Source:  
City of Colorado Springs

CITY OF COLORADO SPRINGS  
STORMWATER NEEDS ASSESSMENT  
**MPL GIS Map Book  
Grid N6**

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-018**

**PROJECT DESCRIPTION**

Name:	Sand Creek Downstream of Platte
Drainage Basin:	Sand Creek
Map Book Grid #:	K8
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	Construct stormwater drop structures, streambank protection.
Summary of Problem:	Channel stabilization needed
Source Document:	Ayres Associates. 2013. Sand Creek Channel Improvements Hancock Expwy. to Platte Ave. East Fork to S. Powers Blvd. and West Fork to Wooten Road.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

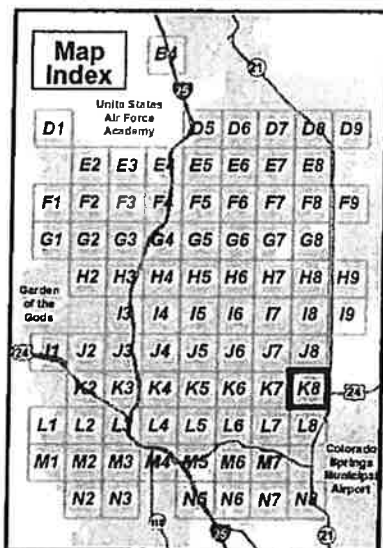
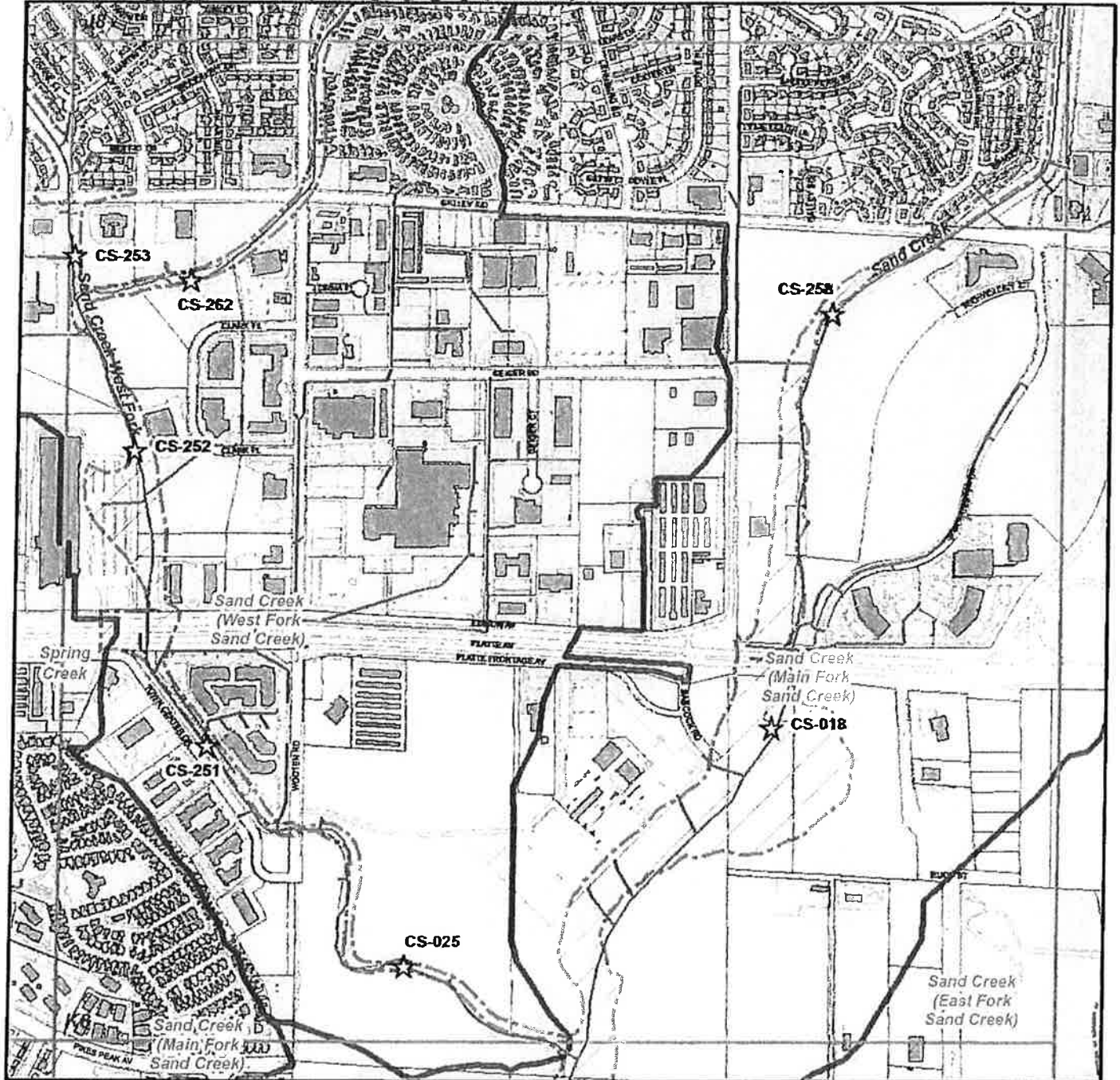
Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	High

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	12
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	3
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>31</b>

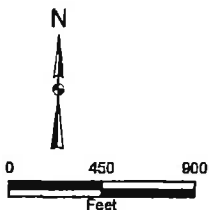
**COST**

Best Available Baseline Cost Year:	2013
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$2,944,535 Updated (2013 Dollars)</b>



### Legend

- ☆ City Projects
- Stream Line
- Stormwater Infrastructure
- Basin Watershed Boundary
- Private
- City of Colorado Springs
- El Paso County
- State
- Federal
- Waldo Canyon Burn Area
- Regulatory (FEMA) 100-year Floodplain
- Buildings
- City Ponds
- B4 Map Grid



Source:  
City of Colorado Springs

**CITY OF COLORADO SPRINGS  
STORMWATER NEEDS ASSESSMENT  
MPL GIS Map Book  
Grid K8**



**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-330**

**PROJECT DESCRIPTION**

Name:	Fairfax Tributary Detention Pond - Research Parkway at Powers
Drainage Basin:	Cottonwood Creek
Map Book Grid #:	D8
Category:	Storage
Type of Project:	New Construction
Description:	Construct New Detention Pond
Summary of Problem:	Pond required to reduce peak flows in the downstream direction
Source Document:	Matrix Design Group, Inc. 2010. Cottonwood Creek Drainage Basin Planning Study.
Project within FEMA 100-Year Floodplain?	No
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

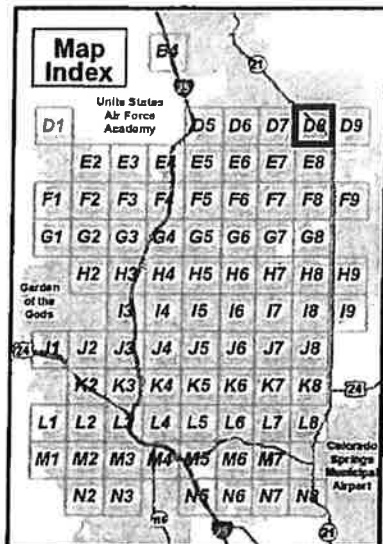
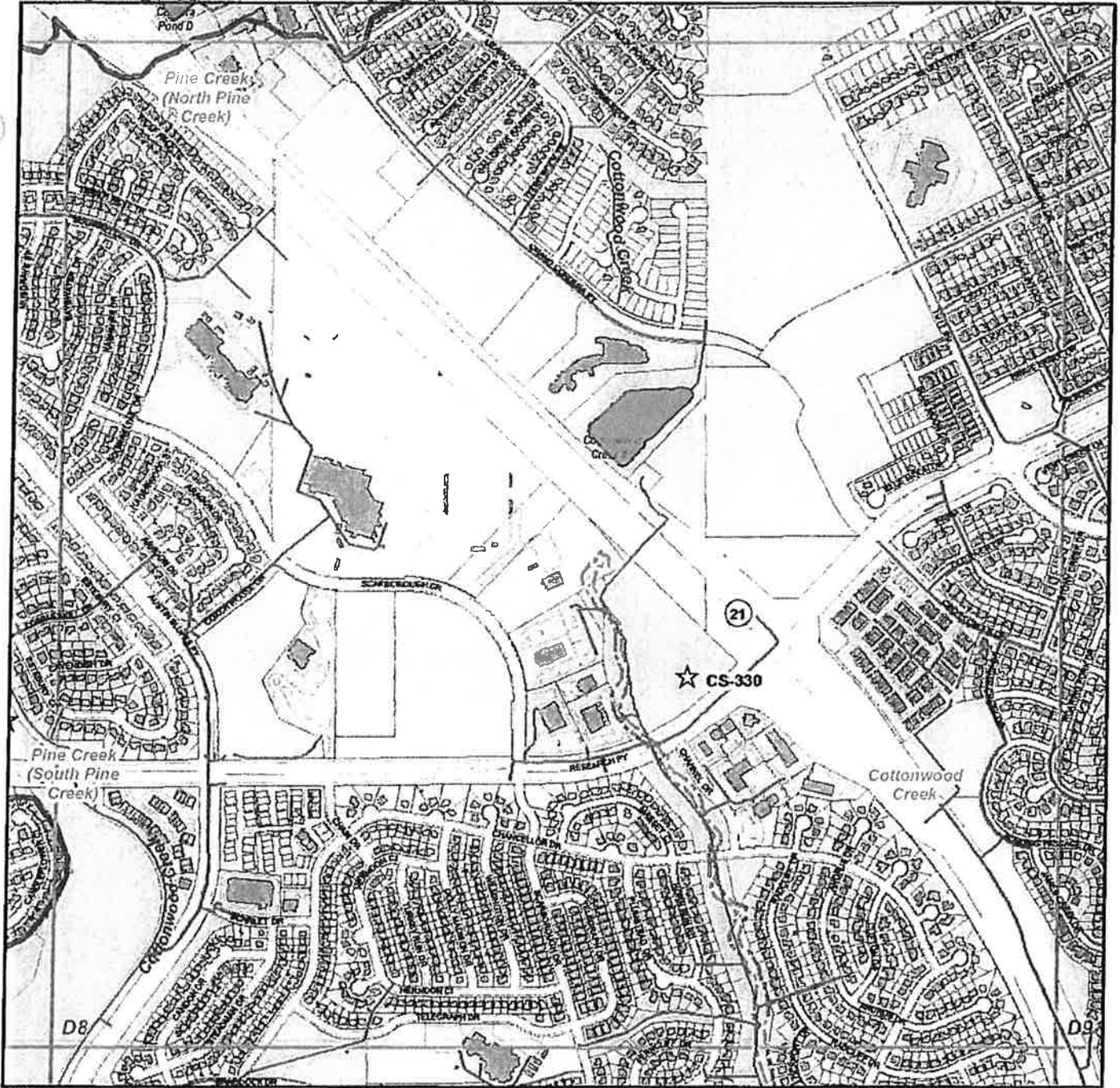
Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	High

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	28
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	10
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>54</b>

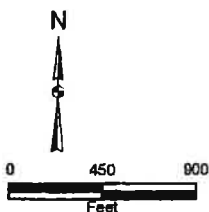
**COST**

Best Available Baseline Cost Year:	2010
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$391,832 Updated (2013 Dollars)</b>



### Legend

- |                             |                          |                                       |
|-----------------------------|--------------------------|---------------------------------------|
| ☆ City Projects             | Private                  | Waldo Canyon Burn Area                |
| — Stream Line               | City of Colorado Springs | Regulatory (FEMA) 100-year Floodplain |
| — Stormwater Infrastructure | El Paso County           | Buildings                             |
| Basin Watershed Boundary    | State                    | City Ponds                            |
|                             | Federal                  | B4 Map Grid                           |



Source:  
City of Colorado Springs

**CITY OF COLORADO SPRINGS  
STORMWATER NEEDS ASSESSMENT**

**MPL GIS Map Book  
Grid D8**

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-013**

**PROJECT DESCRIPTION**

Name:	King Street Detention Pond
Drainage Basin:	Westside
Map Book Grid #:	J2
Category:	Storage
Type of Project:	Replace Existing Facilities
Description:	Construct new outlet structure and improve maintenance access.
Summary of Problem:	Safety, improve maintenance and access
Source Document:	City of Colorado Springs. 2005. 2006-2010 Capital Improvements Program and Needs Assessment
Project within FEMA 100-Year Floodplain?	No
Project Impacted by Burn Area:	Waldo Canyon Burn Area

**ASSESSMENT SUMMARY**

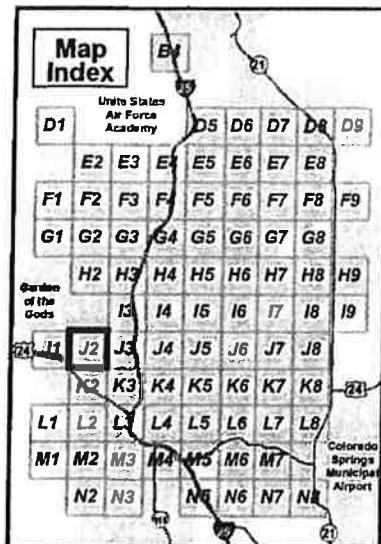
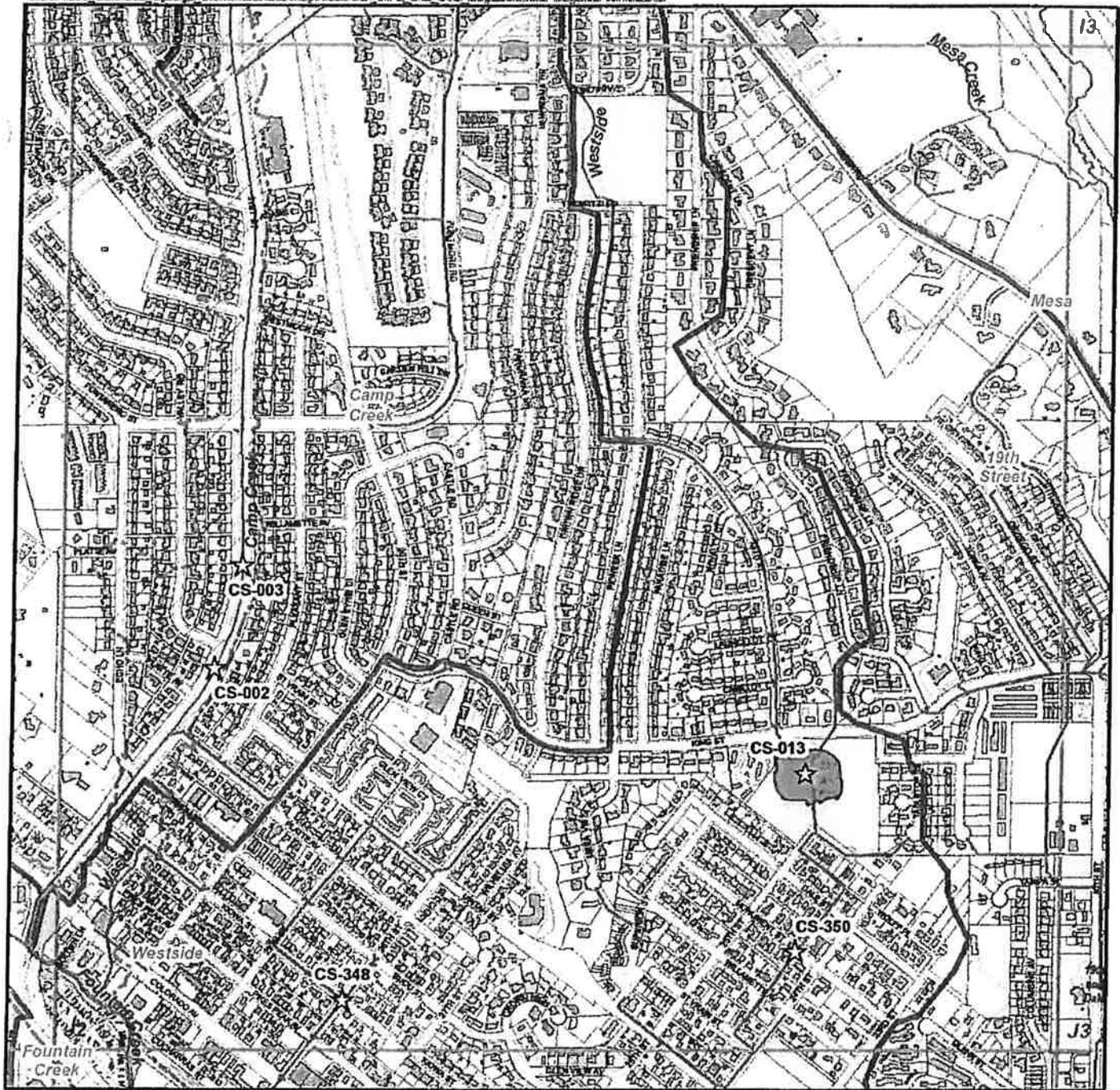
Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class B
Urgency of Project:	Medium

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	12
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	3
System Reliability Score (30% weight):	12
<b>Total Weighted Score:</b>	<b>37</b>

**COST**

Best Available Baseline Cost Year:	N/A
% Constructed:	N/A
Construction Normal or Difficult:	N/A
<b>Project Cost:</b>	<b>\$431,000 Unconfirmable (MPL Cost)</b>



### Legend

- |                           |                          |                                       |
|---------------------------|--------------------------|---------------------------------------|
| ☆ City Projects           | Private                  | Waldo Canyon Burn Area                |
| Stream Line               | City of Colorado Springs | Regulatory (FEMA) 100-year Floodplain |
| Stormwater Infrastructure | El Paso County           | Buildings                             |
| Watershed Boundary        | State                    | City Ponds                            |
| Basin                     | Federal                  | B4 Map Grid                           |



Source:  
City of Colorado Springs

CITY OF COLORADO SPRINGS  
STORMWATER NEEDS ASSESSMENT

MPL GIS Map Book  
Grid J2



**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-335**

**PROJECT DESCRIPTION**

Name:	South Pine Creek Detention Pond - Lexington at Bordeaux
Drainage Basin:	Cottonwood Creek
Map Book Grid #:	E6
Category:	Storage
Type of Project:	New Construction
Description:	Construct New Detention Pond
Summary of Problem:	Pond required to reduce peak flows in the downstream direction
Source Document:	Matrix Design Group, Inc. 2010. Cottonwood Creek Drainage Basin Planning Study.
Project within FEMA 100-Year Floodplain?	No
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

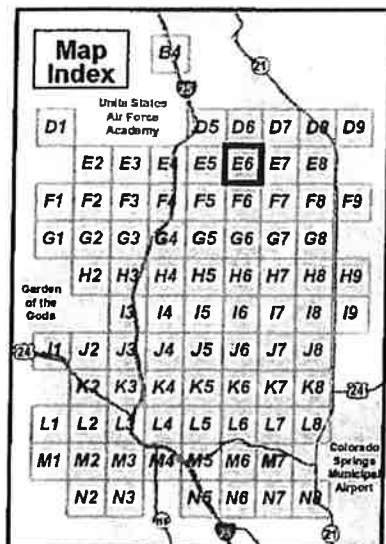
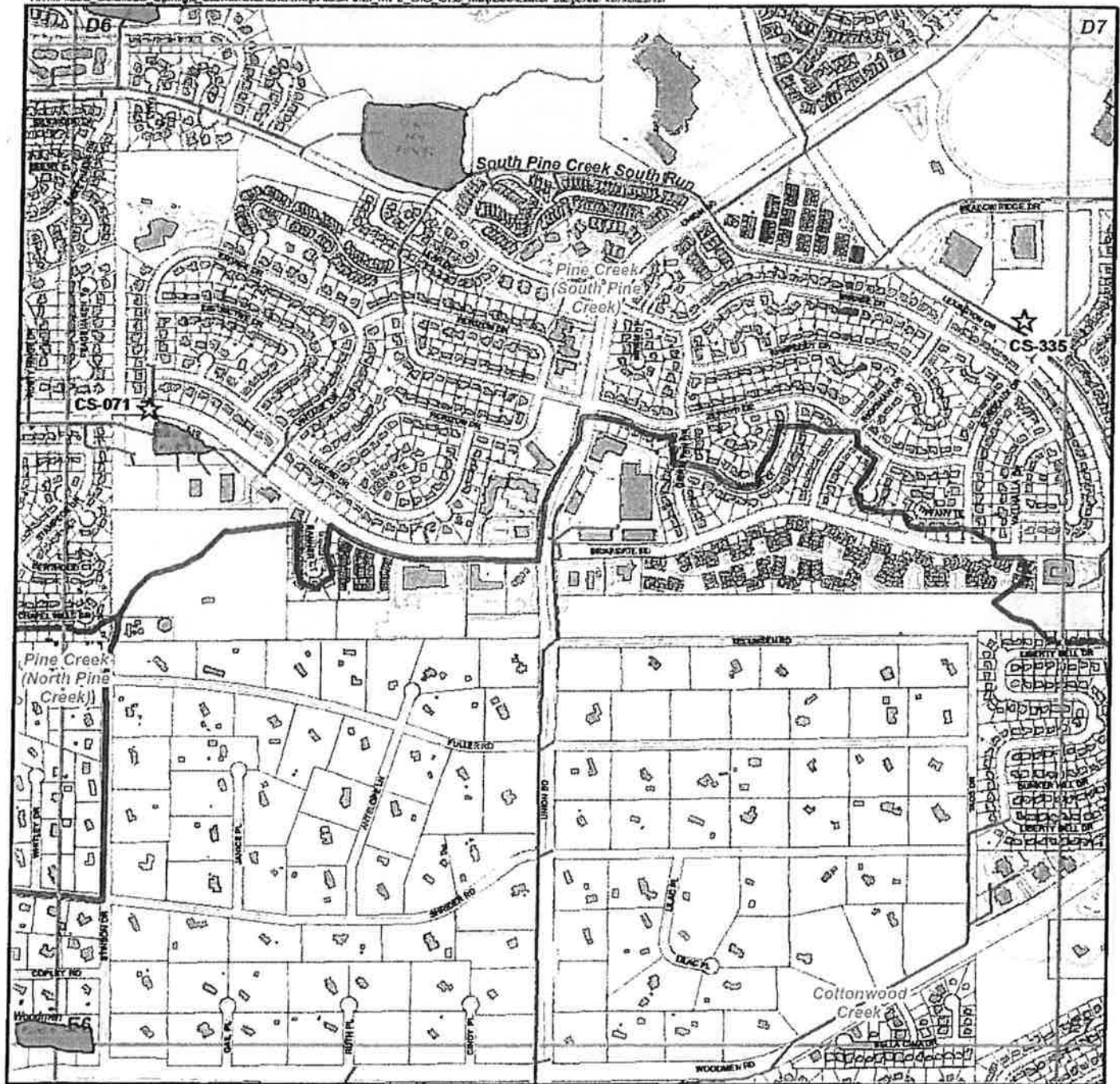
Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	High

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	28
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	10
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>54</b>

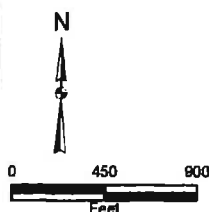
**COST**

Best Available Baseline Cost Year:	2010
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$453,700 Updated (2013 Dollars)</b>



### Legend

- |                             |                          |                                       |
|-----------------------------|--------------------------|---------------------------------------|
| ☆ City Projects             | Private                  | Waldo Canyon Burn Area                |
| — Stream Line               | City of Colorado Springs | Regulatory (FEMA) 100-year Floodplain |
| — Stormwater Infrastructure | El Paso County           | Buildings                             |
| — Watershed Boundary        | State                    | City Ponds                            |
| Basin                       | Federal                  | B4 Map Grid                           |



Source:  
City of Colorado Springs

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-333**

**PROJECT DESCRIPTION**

Name:	Rangewood Tributary Detention Pond at Dublin Blvd.
Drainage Basin:	Cottonwood Creek
Map Book Grid #:	F7
Category:	Storage
Type of Project:	New Construction
Description:	Construct New Detention Pond
Summary of Problem:	Pond required to reduce peak flows in the downstream direction
Source Document:	Matrix Design Group, Inc. 2010. Cottonwood Creek Drainage Basin Planning Study.
Project within FEMA 100-Year Floodplain?	No
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

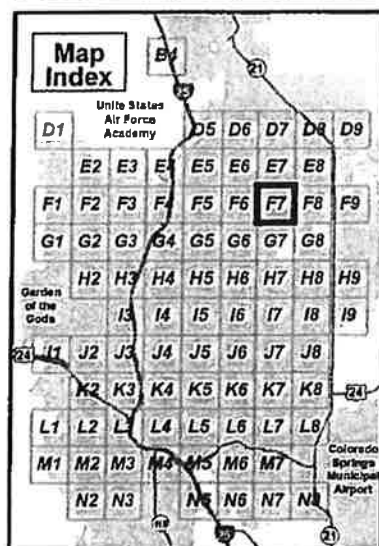
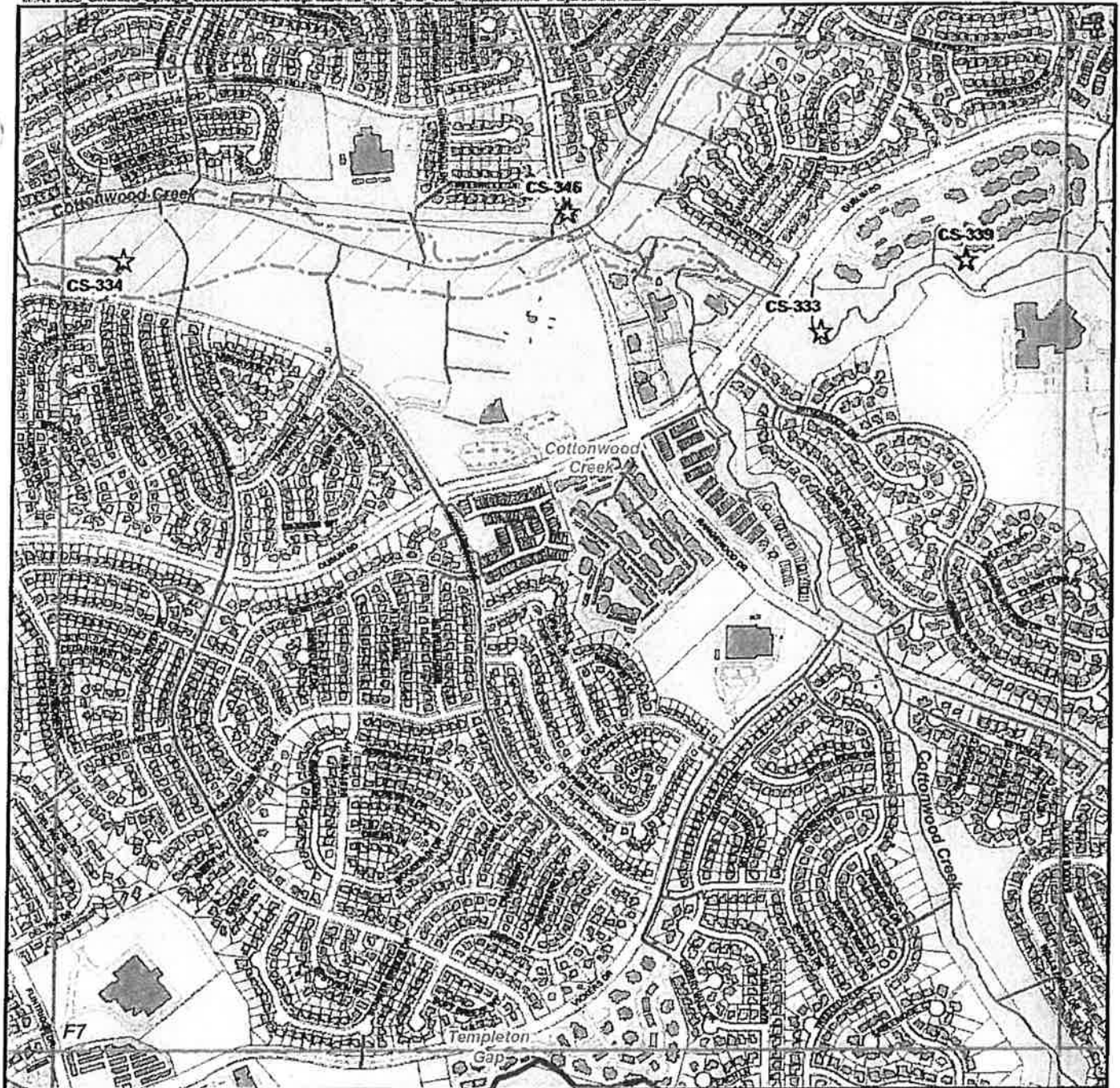
Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	High

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	28
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	10
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>54</b>

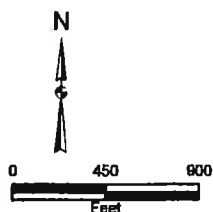
**COST**

Best Available Baseline Cost Year:	2010
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$659,927 Updated (2013 Dollars)</b>



### Legend

- |                             |                          |                                       |
|-----------------------------|--------------------------|---------------------------------------|
| ☆ City Projects             | Private                  | Waldo Canyon Burn Area                |
| — Stream Line               | City of Colorado Springs | Regulatory (FEMA) 100-year Floodplain |
| — Stormwater Infrastructure | El Paso County           | Buildings                             |
| — Watershed Boundary        | State                    | City Ponds                            |
| Basin                       | Federal                  | B4 Map Grid                           |



Source:  
City of Colorado Springs

### CITY OF COLORADO SPRINGS STORMWATER NEEDS ASSESSMENT MPL GIS Map Book Grid F7



**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-308a**

**PROJECT DESCRIPTION**

Name:	Fountain Creek - Drake Power Plant to S. Tejon St. - High Priority Reach 3 Projects
Drainage Basin:	Fountain Creek
Map Book Grid #:	L3
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	Evaluation of safety for 4 existing drop structures at LVWWTP
Summary of Problem:	High velocities resulting in erosion and downcutting of the channel. As well as wall failure along bank
Source Document:	WHPacific. 2009. Fountain Creek Stabilization & Restoration Plan Monument Creek to the Colorado Springs Southern City Limit.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	High

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	20
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>43</b>

**COST**

Best Available Baseline Cost Year:	2011
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$858,547 Updated (2013 Dollars)</b>

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-308b**

**PROJECT DESCRIPTION**

Name:	Fountain Creek - Drake Power Plant to S. Tejon St.
Drainage Basin:	Fountain Creek
Map Book Grid #:	L3
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	Channel stabilization
Summary of Problem:	High velocities resulting in erosion and downcutting of the channel. As well as wall failure along bank
Source Document:	WHPacific. 2009. Fountain Creek Stabilization & Restoration Plan Monument Creek to the Colorado Springs Southern City Limit.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

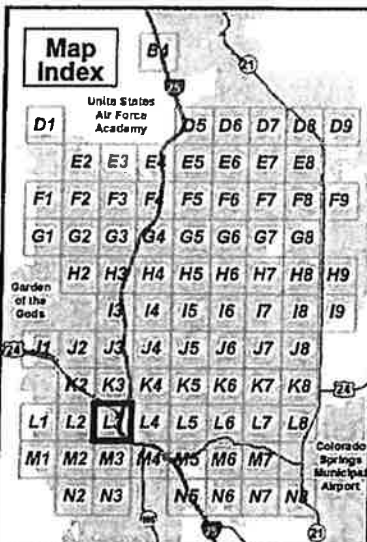
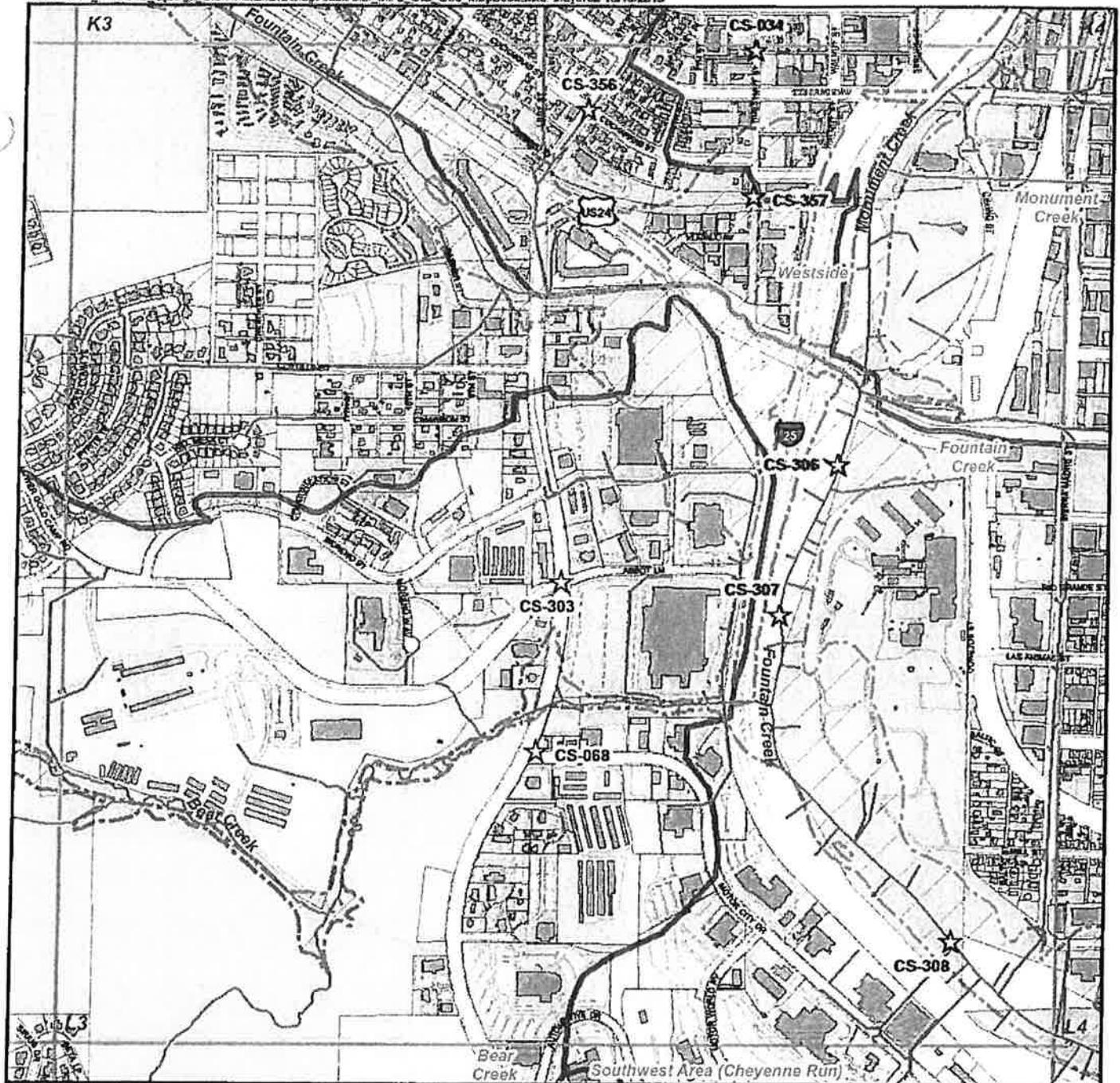
Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	Medium

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	20
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>43</b>

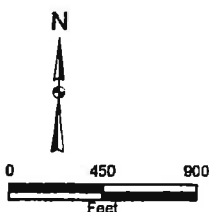
**COST**

Best Available Baseline Cost Year:	2011
% Constructed:	0
Construction Normal or Difficult:	Normal
Project Cost:	<b>\$925,737 Updated (2013 Dollars)</b>



### Legend

- |                             |                          |                                       |
|-----------------------------|--------------------------|---------------------------------------|
| ☆ City Projects             | Private                  | Waldo Canyon Burn Area                |
| — Stream Line               | City of Colorado Springs | Regulatory (FEMA) 100-year Floodplain |
| — Stormwater Infrastructure | El Paso County           | Buildings                             |
| — Watershed Boundary        | State                    | City Ponds                            |
| Basin                       | Federal                  | B4 Map Grid                           |



Source:  
City of Colorado Springs

CITY OF COLORADO SPRINGS  
STORMWATER NEEDS ASSESSMENT

MPL GIS Map Book  
Grid L3

Page 64 of 82

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-309a**

**PROJECT DESCRIPTION**

Name:	Fountain Creek - S. Tejon St. to Shooks Run - High Priority Reach 4 Projects
Drainage Basin:	Fountain Creek
Map Book Grid #:	M4
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	Drop Structure
Summary of Problem:	Vertical degradation of the stream and sanitary sewers at the risk of being exposed
Source Document:	WHPacific. 2009. Fountain Creek Stabilization & Restoration Plan Monument Creek to the Colorado Springs Southern City Limit.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	High

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	16
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>39</b>

**COST**

Best Available Baseline Cost Year:	2011
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$345,713 Updated (2013 Dollars)</b>



**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-309b**

**PROJECT DESCRIPTION**

Name:	Fountain Creek - S. Tejon St. to Shooks Run
Drainage Basin:	Fountain Creek
Map Book Grid #:	M4
Category:	Channel / Grade Control
Type of Project:	New Construction
Description:	Channel stabilization
Summary of Problem:	Vertical degradation of the stream and sanitary sewers at the risk of being exposed
Source Document:	WHPacific. 2009. Fountain Creek Stabilization & Restoration Plan Monument Creek to the Colorado Springs Southern City Limit.
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

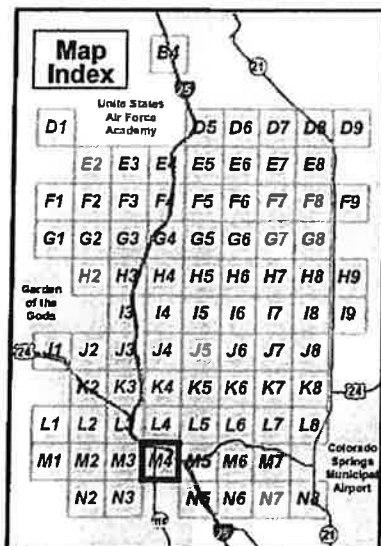
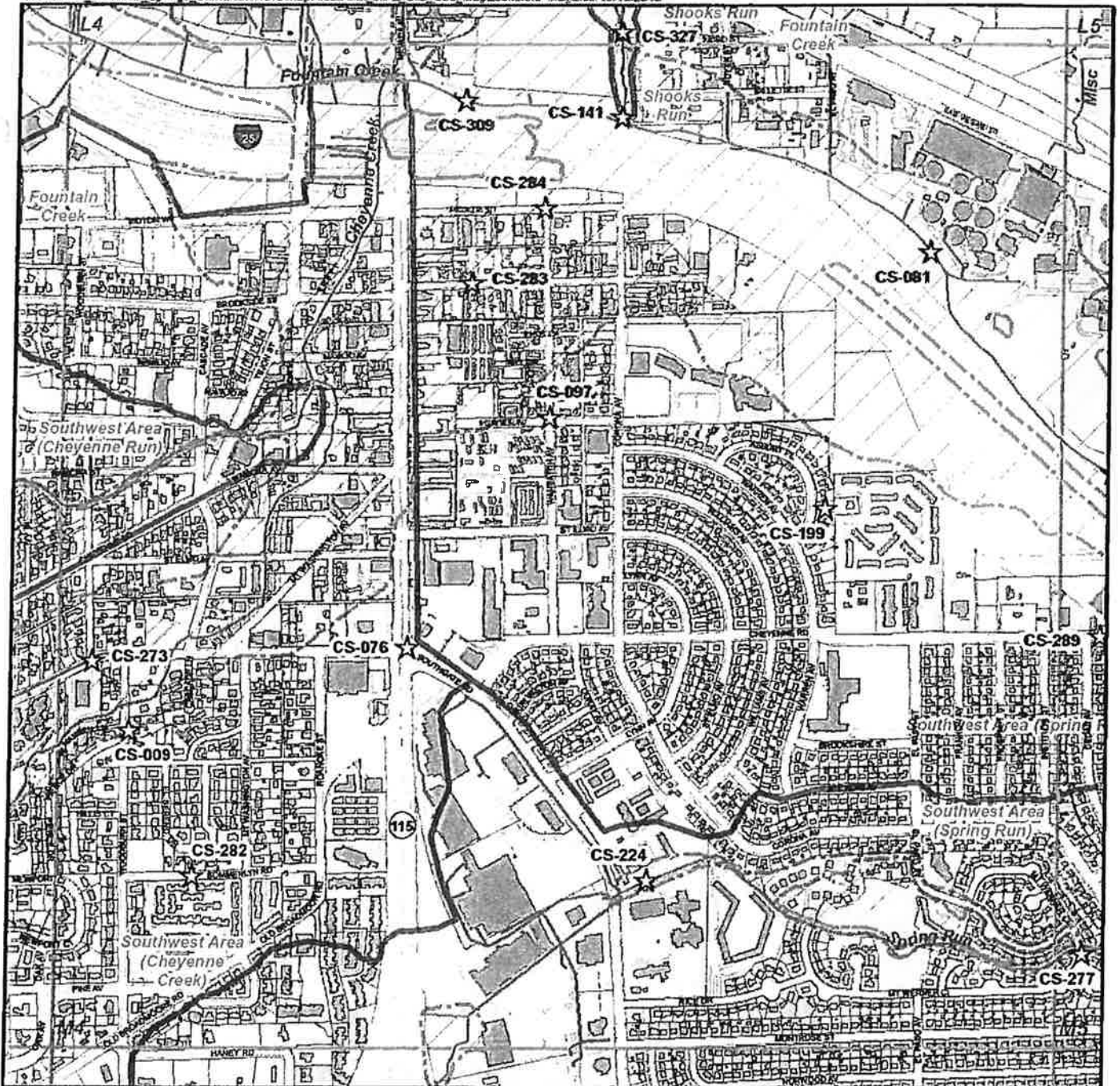
Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	Medium

**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	16
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	6
<b>Total Weighted Score:</b>	<b>39</b>

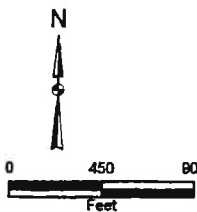
**COST**

Best Available Baseline Cost Year:	2011
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$2,523,203 Updated (2013 Dollars)</b>



### Legend

- |                             |                          |                                       |
|-----------------------------|--------------------------|---------------------------------------|
| ☆ City Projects             | Private                  | Waldo Canyon Burn Area                |
| — Stream Line               | City of Colorado Springs | Regulatory (FEMA) 100-year Floodplain |
| — Stormwater Infrastructure | El Paso County           | Buildings                             |
| — Watershed Boundary        | State                    | City Ponds                            |
| Basin                       | Federal                  | B4 Map Grid                           |



Source:  
City of Colorado Springs

**CITY OF COLORADO SPRINGS  
STORMWATER NEEDS ASSESSMENT  
MPL GIS Map Book  
Grid M4**

**Colorado Springs Stormwater Needs Assessment**  
**Validated Project Summary: CS-141**

**PROJECT DESCRIPTION**

Name:	Gillette St. and Shooks Run (Confluence of Shooks Run and Fountain Creek)
Drainage Basin:	Fountain Creek
Map Book Grid #:	M4
Category:	Channel / Grade Control
Type of Project:	Repair of Existing Facilities
Description:	Concrete retaining wall has fallen into Shooks Run. Possibly part of Shooks run project scope.
Summary of Problem:	Riprap was installed to protect a 60" sewer main and is currently failing.
Source Document:	SWENT Database
Project within FEMA 100-Year Floodplain?	Yes
Project Impacted by Burn Area:	No

**ASSESSMENT SUMMARY**

Type of Assessment:	Field Visit
Post Assessment Status:	Planned
Project Classification:	Class A
Urgency of Project:	Medium

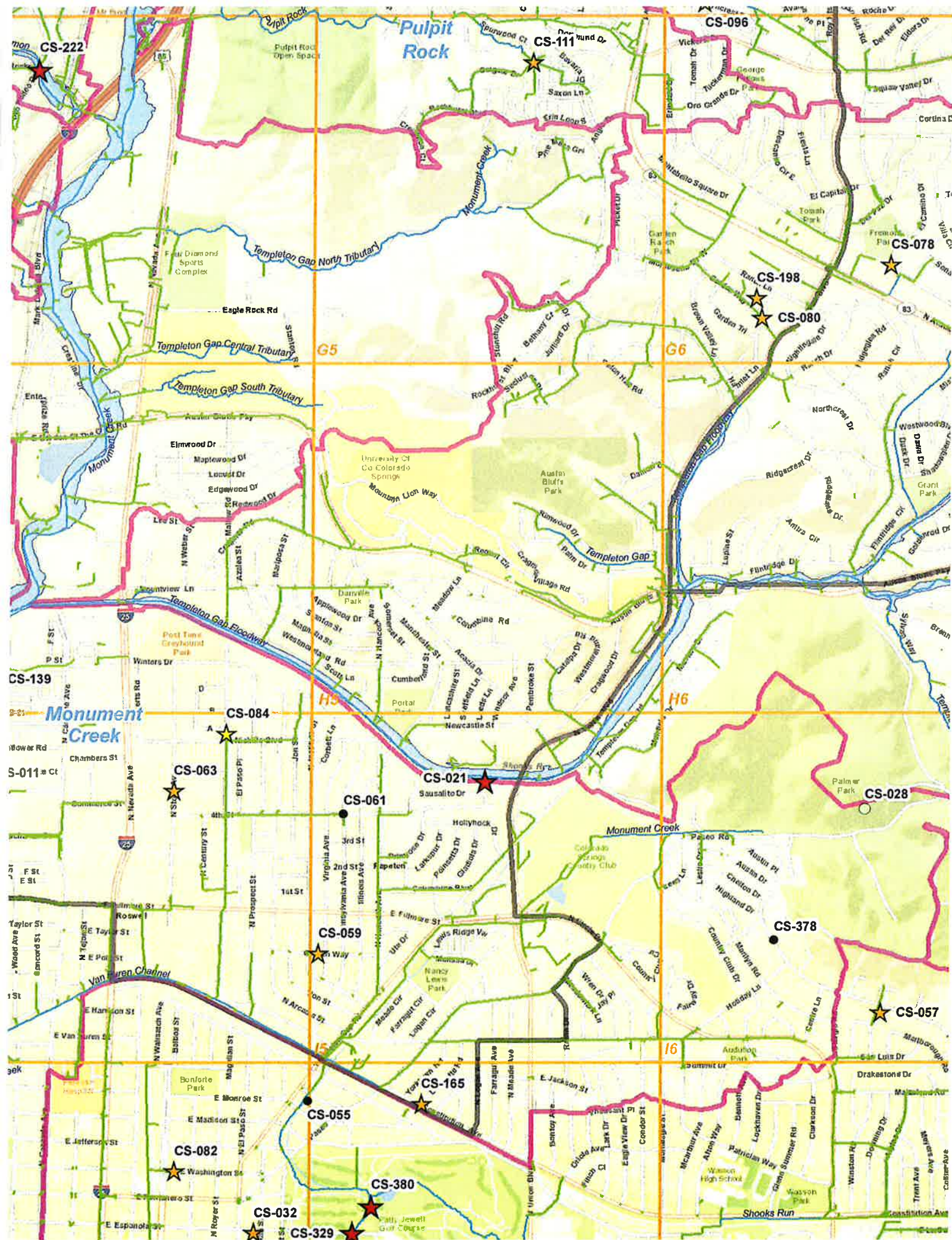
**BENEFIT SCORE**

Health, Safety, and Community Benefit Score (40% weight):	20
Legal Regulatory Score (20% weight):	10
Environmental Sustainability Score (10% weight):	7
System Reliability Score (30% weight):	0
<b>Total Weighted Score:</b>	<b>37</b>

**COST**

Best Available Baseline Cost Year:	2012
% Constructed:	0
Construction Normal or Difficult:	Normal
<b>Project Cost:</b>	<b>\$484,450 Updated (2013 Dollars)</b>







## **ATTACHMENT 5**

**Final Draft – April 30, 2015**

**A Comparison of SWENT CIP Project Spending Based on a January 2010 Spreadsheet and City Actual Expenditures Based on the Stormwater Program Expenditures by the City of Colorado Springs — 2004 through 2014**

**Background**

City Stormwater staff has been asked to compare the SWENT projects listed in a spreadsheet dated January, 2010 to the actual expenditures for those projects as compiled by the City of Colorado Springs as part of the Stormwater Program Expenditures by the City of Colorado Springs – 2004 through 2014 spreadsheet and narrative. This comparison provides a brief explanation of each project listed on the SWENT CIP spreadsheet, includes a discussion of the degree to which actual expenditures compare with those on the SWENT CIP spreadsheet, and estimates the need for additional project work as validated by the CH2M HILL Stormwater Needs Assessment Project (SNAP) completed in 2013.

**Discussion**

The majority of the projects listed on the SWENT January 2010 spreadsheet are channel stabilization projects that were undertaken as part of a larger collaboration with CSU and/or developers. CH2M HILL field verified and validated the City's current list of projects as part of the SNAP in 2013, and eliminated projects that were already completed by the SWENT or double-counted in some way. It is important to note that although the project titles used by SWENT often referred to an entire reach of a channel, the improvements undertaken did not complete the bed and bank channel stabilization for the entire reach, and several areas requiring stabilization may remain in the reach.

Of the 11 projects listed in the January 2010 spreadsheet, all but three are within reasonable percentage differences compared to actual City expenditures. Cottonwood Creek Channel – Monument Creek to Academy Boulevard, Sand Creek Main Stem Ph. 1 – Academy Boulevard to Platte Avenue, and Sand Creek Main Stem Ph. 2 – Platte Avenue to Constitution Avenue show actual City expenditures as 48, 39, and 53 percent, respectively, less than the amounts shown in the January 2010 SWENT CIP spreadsheet. For the Sand Creek Main Stem Ph. 1 project, this discrepancy is directly attributable to the amount reimbursed to CSU out of the SWENT account. The unresolved expenditure balances for the Cottonwood Creek and Sand Creek Main Stem Ph. 2 projects are very likely a result of grant money or shifting money from account to account, and will take some additional time to resolve.

**Conclusion**

The bottom line is that the expenditures reported in the January, 2010 spreadsheet are reasonably close to the stormwater expenditures that are reported in the recent 2004-2014 Stormwater Program Expenditures report issued earlier this year. SWENT completed several stabilization projects, but many additional projects remain, as noted in the 2013 SNAP by CH2M HILL.

<u>Project Name</u>	<u>January 2010 SWENT CIP</u>	<u>City Actual Expenditures</u>	<u>Percent of SWENT CIP</u>	<u>Project Description</u>
Fountain Creek - From confluence with Monument Creek to south City limits	\$ 1,417,010	\$ 1,372,199	-3%	Initial implementation of the Fountain Creek Master Plan; addressed the most critical issues within this reach; projects in the SNAP are still valid
Cottonwood Creek Channel - Monument Creek to Academy Boulevard	\$ 1,150,000	\$ 599,993	-48%	Project was divided into reaches: Reach 1 and 2 (Monument Creek to Vincent Dr.) were completed in 2013 to stabilize banks; Reach 3 (@ Current Ave near Qwest facility) done in 2010 with FEMA PDM Grant; Reach 4 and 5 are to be completed
Sand Creek Main Stem Ph. 1 - Academy Boulevard to Platte Avenue	\$ 3,736,326	\$ 2,266,250	-39%	This project was a master plan that was completed in 2013 and included construction of bed and bank stabilization by SWENT and CSU; <b>*City actual expenditures are less than SWENT reported by the approximate amount that was transferred to CSU for their portion of the work*</b>
Fountain Creek Restoration - Gold Hills Mesa	\$ 1,616,344	\$ 1,594,381	-1%	Completed with City, SWENT, and developer funds between 8th and 20th Streets. Nothing further needed along reach
Sand Creek Main Stem Ph. 2 - Platte Avenue to Constitution Avenue	\$ 4,297,833	\$ 2,039,576	-53%	Master Plan completed in 2013; a few drop structures have been constructed by City and CSU, but additional bed and bank stabilization is needed.
Fountain Boulevard/Chelton Road Intersection Stormwater Improvements	\$ 1,154,000	\$ 1,160,980	1%	Improvements designed to improve flooding conditions at this intersection
Cottonwood Creek Channel - Union Boulevard to Rangewood Drive	\$ 3,500,000	\$ 3,648,906	4%	Reach identified in Cottonwood Creek DBPS as requiring multiple drop structures to stabilize the bed and bank; La Madrina drop completed; CSU working on several additional drops in reach
South Douglas Creek Restoration - Upstream of Centennial Boulevard Ph. 1 (behind Intel)	\$ 400,000	\$ 390,511	-2%	Multiple sections of failed concrete channel were replaced
Templeton Gap Floodway Restoration, Union Boulevard to Austin Bluffs	\$ 783,656	\$ 687,479	-12%	Project required channel realignment and stabilization as a result of the Union Boulevard/Austing Bluffs interchange
Emergency Stormwater Drainage Repairs	\$ 2,341,000	\$ 2,198,342	-6%	Primarily related to street and other pavement failures related to corrugated metal pipe (CMP) failures
Flood Warning/Education and Safety Improvements	\$ 317,000	\$ 316,609	0%	Signage and educational materials to enhance flood safety
	\$ 20,713,169	\$ 16,275,226	-21%	Note: If the \$1,470,076 that was transferred to CSU for the Sand Creek Main Stem Ph. 1 project is added to this total, the percent difference shrinks to roughly 14%