

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 1, SERIES OF 2011

(Reappointment of B. H. Hoffmaster to Board of Directors)

WHEREAS, the term of B. H. (Bob) Hoffmaster as director of Urban Drainage and Flood Control District ends January 31, 2011; and

WHEREAS, Subsection 204(6)(a) of the Urban Drainage and Flood Control Act provides that “On or after, the twenty-first day of January of each year, but on or before the last day of January in such year, a director shall be appointed to the Board by such Board...”; and

WHEREAS, Subsection 204(6)(b) requires that “Each director appointed pursuant to this Subsection (6) shall be a registered professional engineer licensed by the state, who is a taxpaying elector of the District, and who is not an officer and is not in the employment of any public body. Each director shall remain so qualified during his term of office.”; and

WHEREAS, Subsection 204(9) provides “Except as otherwise provided in this article, any incumbent may be reappointed as a director to the board.”; and

WHEREAS, Bob Hoffmaster is a taxpaying elector of the District, is not an officer, or employed by any public body, is a licensed Colorado professional engineer holding license number PE-16522, and is currently a director of the District.

NOW, THEREFORE, BE IT RESOLVED THAT:

B. H. (Bob) Hoffmaster is reappointed as a member of the Board of Directors of the Urban Drainage and Flood Control District for a term ending on January 31, 2013.

(SEAL)

THE URBAN DRAINAGE AND
FLOOD CONTROL DISTRICT

Date: _____

ATTEST:

Secretary

Chairperson

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 2, SERIES OF 2011
(Designation of Public Place for Posting of Meeting Notices)

WHEREAS, the Colorado Open Meeting Law requires that notice of public meetings be posted in a designated public place within the boundaries of the local public body; and

WHEREAS, the public place or places shall be designated annually at the local public body's first regular meeting of each calendar year.

NOW, THEREFORE, BE IT RESOLVED THAT:

The Board of Directors hereby designates the window area adjacent to the main entrance to the District's office at 2480 West 26th Avenue, Suite 156B, Denver, Colorado, as the public place for posting of meeting notices.

(SEAL)

THE URBAN DRAINAGE AND
FLOOD CONTROL DISTRICT

Date: _____

ATTEST:

Secretary

Chairperson

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 3, SERIES OF 2011

(Authorization to Participate in Drainage and Flood Control Improvements on Ralston Creek from Dudley Court to Carr Street in the City of Arvada)

WHEREAS, the District in a policy statement previously adopted, (Resolution No. 14, Series of 1970 and Resolution No. 11, Series of 1973), expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, the City of Arvada has enacted floodplain regulations; and

WHEREAS, the City of Arvada and the District cooperated in the preparation of "Major Drainageway Planning Study – Lower Ralston /Van Bibber and Leyden Creeks" dated February 1986; and

WHEREAS, the City of Arvada has requested District participation in the design, acquisition of right-of-way, and construction of improvements along Ralston Creek from Dudley Court to Carr Street (Exhibit A); and

WHEREAS, the City of Arvada has estimated the total project costs to be \$700,000; and

WHEREAS, the District’s participation being authorized by this resolution is \$350,000; and

WHEREAS, it is anticipated that additional funds may be required for this project in the future; and

WHEREAS, the District has adopted a Special Revenue Fund–Construction Budget (Resolution No. 52, Series of 2010) for calendar year 2011 subsequent to public hearing, which includes funds for design, acquisition of right-of-way, and construction of drainage and flood control improvements along Ralston Creek from Dudley Court to Carr Street; and

WHEREAS, the District has adopted at a public hearing a Five-Year Capital Improvement Program (Resolution No. 68, Series of 2010) in which the improvements along Ralston Creek from Dudley Court to Carr Street were included.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The Executive Director is authorized to execute the necessary agreements with the City of Arvada for the design, acquisition of right-of-way, and construction of drainage and flood control improvements on Ralston Creek from Dudley Court to Carr Street.
2. The Executive Director is authorized to enter into an agreement(s) with qualified engineers, qualified contractors, and others as necessary for the design, acquisition of right-of-way, and construction of drainage and flood control improvements on Ralston Creek from Dudley Court to Carr Street.
3. The District’s maximum contribution to the Ralston Creek from Dudley Court to Carr Street project, without prior approval of the Board, shall be \$350,000 plus interest earned on monies deposited in the project fund, which contribution shall be at least matched by the City of Arvada.
4. Such approval for expenditure of District funds is contingent upon the City of Arvada agreeing to regulate and control any defined floodplain in the Ralston Creek from Dudley Court to Carr Street project area in accordance with the National Flood Insurance Program Regulation as a minimum; agreeing to maintain the completed facilities in a manner acceptable to the District; granting the District access to the completed improvements at all times; and agreeing not to make any changes to the improvements without the District’s approval.

(SEAL)

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

Date: _____

ATTEST:

Secretary
Ralston Creek 0211

Chairperson

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 3, SERIES OF 2011

(Authorization to Participate in Drainage and Flood Control Improvements on Ralston Creek from Dudley Court to Carr Street in the City of Arvada)

EXHIBIT A



THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 4, SERIES OF 2011

(Additional Authorization to Participate in Drainage and Flood Control Improvements on Cherry Creek at Eco Park in the City of Centennial, Arapahoe County)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No.11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, the City of Centennial has enacted floodplain regulations; and

WHEREAS, the City of Centennial has assigned and transferred to the Southeast Metro Stormwater Authority (SEMSWA) its rights and obligation for the Cherry Creek at Eco Park project; and

WHEREAS, Arapahoe County, the City of Aurora, the Cherry Creek Basin Water Quality Authority and the District cooperated in the preparation of "Cherry Creek Corridor Reservoir to County Line Outfall Systems Plan " dated May 1999; and

WHEREAS, the Board previously authorized, (Resolution No. 56, Series of 2010, and Resolution No. 30, Series of 2009) \$110,000 for design, acquisition of right-of-way, and construction of improvements along Cherry Creek at Eco Park (Exhibit A); and

WHEREAS, SEMSWA and the District now desire to construct improvements along Cherry Creek at Eco Park; and

WHEREAS, SEMSWA and the District have estimated the additional project costs to be \$1,090,000 resulting in a revised total project cost of \$1,350,000; and

WHEREAS, the District's additional participation being authorized by this resolution is \$540,000; and

WHEREAS, it is anticipated that additional funds will be required for this project in the future; and

WHEREAS, the District has adopted a Special Revenue Fund-Construction Budget (Resolution No. 52, Series of 2010) for calendar year 2011 subsequent to public hearing, which includes funds for construction of drainage and flood control improvements along Cherry Creek at Eco Park; and

WHEREAS, the District has adopted at a public hearing a Five-Year Capital Improvement Plan (Resolution No. 68, Series of 2010) in which the improvements along Cherry Creek at Eco Park were included.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. Resolution No. 30, Series of 2009, Paragraph 3, is further amended as follows:
"The District's maximum contribution to the Cherry Creek at Eco Park project without prior approval of the Board shall be ~~\$110,000~~ **\$650,000** plus interest earned on monies deposited in the project fund, which contribution shall be at least matched by SEMSWA."
2. All other conditions and authorizations remain as stated in Resolution No. 30, Series of 2009.

(SEAL)

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

Date: _____

ATTEST:

Secretary

Chairperson

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 4, SERIES OF 2010

(Additional Authorization to Participate in Drainage and Flood Control Improvements on Cherry Creek at Eco Park in the City of Centennial, Arapahoe County)

EXHIBIT A



THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 5, SERIES OF 2011

(Additional Authorization to Participate in Drainage and Flood Control Improvements on East Toll Gate Creek in the City of Aurora, Arapahoe County)

WHEREAS, the District in a policy statement previously adopted (Resolution No. 14, Series of 1970 and Resolution No.11, Series of 1973) expressed an intent to assist public bodies which have heretofore enacted floodplain zoning measures; and

WHEREAS, the City of Aurora has enacted floodplain regulations; and

WHEREAS, Arapahoe County, the City of Aurora, and the District cooperated in the preparation of "Upper Toll Gate Creek Basin Outfall Planning Study" dated August 1990; and

WHEREAS, the Board previously authorized, (Resolution No. 104, Series of 2001 and Resolution No. 58, Series of 2007) \$200,000 for design, acquisition of right-of-way, and construction of improvements along East Toll Gate Creek (Exhibit A); and

WHEREAS, the City of Aurora and the District now desire to construct improvements along East Toll Gate Creek; and

WHEREAS, the City of Aurora and the District have estimated the additional project costs to be \$1,175,000 resulting in a revised total project cost of \$1,575,000; and

WHEREAS, the District's additional participation being authorized by this resolution is \$355,000; and

WHEREAS, it is anticipated that additional funds may be required for this project in the future; and

WHEREAS, the District has adopted a Special Revenue Fund-Construction Budget, (Resolution No. 52, Series of 2010) for calendar year 2011 subsequent to public hearing, which includes funds for construction of drainage and flood control improvements along East Toll Gate Creek; and

WHEREAS, the District has adopted at a public hearing a Five-Year Capital Improvement Plan, (Resolution No. 68, Series of 2010) in which the improvements along East Toll Gate Creek were included.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. Resolution No. 104, Series of 2001, Paragraph 3, is further amended as follows:
"The District's maximum contribution to the East Toll Gate Creek project without prior approval of the Board shall be ~~\$200,000~~ **\$555,000** plus interest earned on monies deposited in the project fund, which contribution shall be at least matched by the City of Aurora."
2. All other conditions and authorizations remain as stated in Resolution No. 104, Series of 2001.

(SEAL)

THE URBAN DRAINAGE AND
FLOOD CONTROL DISTRICT

Date: _____

ATTEST:

Secretary

Chairperson

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 5, SERIES OF 2011

(Additional Authorization to Participate in Drainage and Flood Control Improvements
on East Toll Gate Creek in the City of Aurora, Arapahoe County)

EXHIBIT A



THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 6, SERIES OF 2011
(Authorization to Develop Flood Warning System Improvements
for Boulder Creek and Fourmile Creek)

WHEREAS, the District has established a meteorological support service for 2011 to notify local governments of potential and imminent flood threats (Resolution No. 76, Series of 2010); and

WHEREAS, the District in cooperation with Boulder County and the City of Boulder has installed a flood detection network using ALERT gauging equipment for the Boulder Creek drainage basin; and

WHEREAS, the District has developed a rainfall/runoff model for Boulder Creek that uses real-time rainfall and streamflow data from the ALERT system to help anticipate flood levels and corresponding impacts along Boulder Creek and Fourmile Creek; and

WHEREAS, the District's meteorological support service relies on data from the ALERT system, weather radars, satellites, model outputs and other data sources to forecast flood threats and provide early notifications concerning those threats; and

WHEREAS, the September 6, 2010 Fourmile Canyon Fire has significantly increased the flood potential for Fourmile Creek and Boulder Creek; and

WHEREAS, Boulder County has requested assistance from the District to quantify the increased threat, determine rainfall thresholds for flood warning, and improve flood threat recognition capabilities; and

WHEREAS, the District adopted a General Fund budget for calendar year 2011 (Resolution No. 52, Series of 2010) that included funds for special projects; and

WHEREAS, the Colorado Water Conservation Board has \$100,000 available to reimburse the District for developing flood warning system improvements for Boulder Creek and Fourmile Creek.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The Executive Director is authorized to enter into an agreement(s) with qualified engineers and consultants to quantify the increased flood potential caused by the Fourmile Canyon Fire and develop flood warning system improvements for Boulder Creek and Fourmile Creek.
2. The District's maximum General Fund expenditure shall not exceed \$100,000 without prior approval of the Board.
3. The Executive Director is authorized to enter into an agreement with the Colorado Water Conservation Board to be reimbursed for expenditures not to exceed \$100,000 for quantifying the increased flood potential caused by the Fourmile Canyon Fire and developing flood warning system improvements for Boulder Creek and Fourmile Creek.

(SEAL)

THE URBAN DRAINAGE AND
FLOOD CONTROL DISTRICT

Date: _____

ATTEST:

Secretary
FMC Fire 0211

Chairperson

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 7, SERIES OF 2011

(Additional Authorization for Funding Support of a Stormwater Bioretention Demonstration Project)

WHEREAS, the District continues to work with municipalities within the District to develop criteria for the design of drainage and stormwater management facilities; and

WHEREAS, the District previously authorized (Resolution No. 72, Series of 2010) funding support for research of stormwater quality technology and best management practices; and

WHEREAS, the District has partnered with the University of Colorado, and the Urban Watersheds Research Institute to conduct a laboratory research study of stormwater bioretention (a.k.a. rain garden) practices, which is now complete; and

WHEREAS, the District previously authorized (Resolution No. 19, Series of 2010) funding support for a stormwater bioretention demonstration project in a residential neighborhood at 21st Avenue and Iris Street in Lakewood, which will be monitored over several years to evaluate long term performance and maintenance needs; and

WHEREAS, the District has partnered with the City of Lakewood, the Urban Watersheds Research Institute, and the Colorado Stormwater Council to fund this project; and

WHEREAS, the City of Lakewood has identified \$50,000 in additional funding to expand this research project and has asked the District to match this additional funding, such that the project area can be expanded; and

WHEREAS, the District has budgeted \$50,000 in 2011 for this activity, to which the Urban Watersheds Research Institute may add another \$10,000.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The Executive Director is authorized to execute the necessary agreements with qualified consultants and contractors to assist the District in constructing and monitoring a stormwater bioretention demonstration project.
2. The 2011 expenditure for this work shall not exceed \$50,000 without further authorization from the Board.

(SEAL)

THE URBAN DRAINAGE AND
FLOOD CONTROL DISTRICT

Date: _____

ATTEST:

Secretary

Chairperson

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

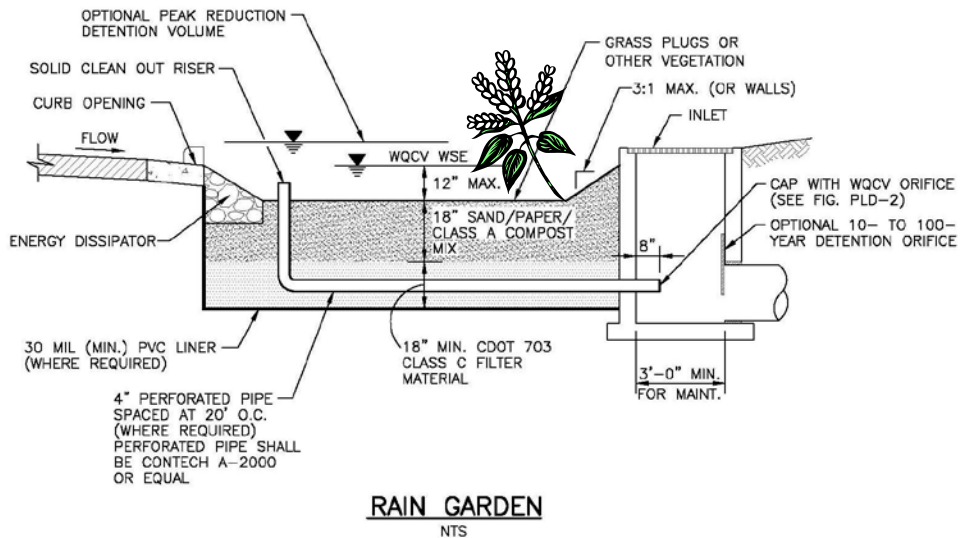
RESOLUTION NO. 7, SERIES OF 2011

(Additional Authorization for Funding Support of a Stormwater Bioretention Demonstration Project)

EXHIBIT A



Typical bioretention cell, a.k.a. rain garden



Typical bioretention cell cross section

THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

RESOLUTION NO. 8, SERIES OF 2011

(Adoption of a Good Neighbor Policy Regarding District Activities)

WHEREAS, the Urban Drainage and Flood Control District was established by the Colorado General Assembly in 1969 in order to assist local governments with multijurisdictional drainage and flood control problems, including the authority to levy property taxes for operations and planning; and

WHEREAS, the General Assembly has subsequently authorized the District to levy property taxes for design and construction of projects, for maintenance, and for the South Platte River; and

WHEREAS, the District has constructed approximately \$180 million in drainage and flood control projects in partnership with local jurisdictions; and

WHEREAS, the District has contributed approximately \$12 million to the acquisition and preservation of key floodplain areas in partnership with local jurisdictions and other partners; and

WHEREAS, many District projects are designed and constructed, by necessity, for rare events; and are therefore not utilized very frequently for their primary intended purpose; and

WHEREAS, the District staff has worked with local government partners to enhance the projects to make them more valuable to their constituents on a daily basis; and

WHEREAS, the Natural and Beneficial Functions (NBF) of drainageways and floodplains; including trail corridors, parks, recreation, wildlife habitat, flood storage, and groundwater recharge, can serve as amenities to adjacent neighborhoods and entire communities.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The Board of Directors of the Urban Drainage and Flood Control District adopts the following "Good Neighbor Policy":
2. The Master Planning Program will, during the preparation of storm drainage criteria, major drainage plans, outfall systems plans, and other master planning studies, identify and incorporate NBF and other opportunities.
3. The Floodplain Management Program will continue to map the 1% and 0.2% floodplains in undeveloped areas in order to identify areas that are hazardous to develop, and areas of significant NBF; and to work with local governments in the management of future development in or near these hazardous areas to minimize future flood risks and maximize preservation of the NBF.
4. The Design, Construction, and Maintenance Program (DCM) will, when feasible, include amenities in flood management projects that enhance neighborhoods and preserve NBF. As a result of including these amenities, the public will be drawn to the flood management projects; therefore, public safety is of paramount importance and will be included in all planning, design, construction, operation, and maintenance of these facilities.
5. The DCM Program will participate with local government partners and others such as Great Outdoors Colorado and the Trust for Public Land to acquire and preserve areas of significant NBF and/or flood hazards.

6. The Information Services and Flood Warning Program will continue adapting state-of-the-art information technologies to keep decision-makers, partners and other stakeholders informed concerning past, present and future flood threats; and will provide local governments, consultants, affiliates, and the general public with easy access to educational material, publications and other helpful information associated with District programs and activities.

(SEAL)

THE URBAN DRAINAGE AND
FLOOD CONTROL DISTRICT

Date: _____

ATTEST:

Secretary

Chairperson