

FY 2013-14 Level II Controlled Maintenance Request

Project Title	Fund Source	Amount
12.10 2013-061	CCF	\$525,085
Colorado Community Colleges — Lowry		
<i>Upgrade Fire Detection/Suppression Systems, Four Buildings</i>		
<p>The three-phase project updates and installs fire alarm and fire sprinkler systems in various campus buildings to resolve fire code deficiencies. This year's request for Phase II addresses the system's IT facility and a classroom building. Phase I addressed the Campus Conference Center and the Dental Program teaching facility. Phase III will address the Health Education facility and the Campus Facilities Maintenance office.</p>		
<p>Funding history. The first phase of the project was funded from the remaining proceeds from the 2008 sale of certificates of participation on behalf of various higher education projects. House Bill 12-1357 directed the Capital Development Committee (CDC) to determine how to spend the remaining proceeds, and in September 2012, the CDC approved spending from this source for 11 higher education institution controlled maintenance projects.</p>		
12.20 2014-050	CCF	\$782,827
University of Colorado at Boulder		
<i>Replace Electrical Bus Duct and Generators, Cristol Chemistry Building</i>		
<p>The project replaces the generator and electrical bus duct in the Cristol Chemistry Building. The 25-year-old generator has failed its annual load test for the last three years. It is unreliable and parts are no longer available. The bus duct throughout the building dates to 1958 and is antiquated; additionally, its manual switches are difficult to access.</p>		
12.30 2010-080	CCF	\$988,738
Colorado State Fair		
<i>Repair/Replace Secondary Electrical Infrastructure, Colorado State Fair</i>		
<p>The three-phase project designs and installs a secondary electrical supply system at the Colorado State Fairgrounds. Another project installed an underground primary electrical supply system to replace the overhead high voltage lines and transformers. A secondary electrical supply system is required prior to activating the new primary electrical supply system in order to offset increased utility costs. This year's request for Phase III designs and installs the final set of building connections and identifies any future electrical needs on the grounds. Phase I and Phase II designed and installed the first and second set of building connections.</p>		
12.40 2014-051	CCF	\$831,185
Arapahoe Community College		
<i>Replace Rooftop HVAC Units, Annex and Main Buildings</i>		
<p>The project removes two old rooftop HVAC units from the Annex Building and replaces them with new self-contained units. It also updates pneumatically controlled systems to newer, electronically controlled systems. The two units need to be replaced because the six-stage cooling unit that provided them with cooling water has recently failed. As a result, the college is currently using an absorption chiller designed for the Main Building to provide cooling water to these two units, meaning that the chiller is cooling 40,000 square feet more than it is intended to cool. This configuration could result in a complete failure of the cooling system for both buildings.</p>		
12.50 2014-052	CCF	\$789,460
Human Services		
<i>Upgrade Building Automation System</i>		
<p>The project retrofits control panels for the building automation system used by the department to control environmental and security systems in 300 buildings statewide, including youth corrections and psychiatric facilities. Two thirds of the main control panels that make up the field portion of this system are no longer manufactured, and retrofitting them with modern controllers eliminates the need to install completely new systems.</p>		
12.60 2014-053	CCF	\$710,000
Pueblo Community College		
<i>Replace Air Handler Systems, Main Building, SCCC Campus</i>		
<p>The project replaces an internal air handling unit with a rooftop unit at the Pueblo Community College Mancos Campus Main Building. To support the new unit, the project also adds structural support on the roof and replaces existing ducting with a new controlled fresh air supply system. The existing 40-year-old unit is failing, leading to noticeable vibrations within the building, and the existing ducting is corroded and inefficient, and does not meet current mechanical standards.</p>		

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Project Title	Fund Source	Amount
12.70 2014-054	CCF	\$752,070
Revenue		
<i>Replace HVAC System, 1881 Pierce Street</i>		
The four-phase project replaces the HVAC system in the Pierce Street Building. Mechanical systems in the building have not been updated since its construction in 1972, and the four air handling units, south penthouse main fan, and variable air ventilation control system must all be replaced. The building is insufficiently cooled in the summer, hot and cold zones are found in the winter, and air distribution is poor. This year's request for Phase I starts the design and construction for the south wing. Phase II will finish the south wing and address the north wing first floor. Phase III will complete the first floor, and Phase IV will address the basement systems.		
12.80 2011-106	CCF	\$935,700
University of Northern Colorado		
<i>Replace and/or Install Chillers, Kepner Building, Guggenheim Building, Carter Hall, and Crabbe Hall</i>		
The two-phase project replaces two chillers serving four buildings. The Carter Hall chiller was installed in 1980, and the chiller serving the Kepner and Guggenheim Buildings was installed in 1986. Both are in poor condition. This year's request for Phase II installs the piping and chillers. Phase I completed the project design and expanded the underground vault that will house the Kepner chiller.		
12.90 2011-082	CCF	\$906,964
Colorado Community Colleges — Lowry		
<i>Upgrade HVAC, Building 758</i>		
The two-phase project upgrades an HVAC system, replacing two air handling units and making mechanical system repairs in order to avoid system failure. The HVAC equipment is more than 40 years old and has exceeded its useful life. This year's request for Phase II replaces an air handling unit, completes the controls system and variable frequency drives, and reinstates redundancy in the chilled water system. Phase I designed and installed the first air handling unit and the HVAC controls system.		
14.10 2008-123	CCF	\$922,152
Corrections		
<i>Improve Perimeter Security, Arkansas Valley Correctional Facility and Fremont Correctional Facility</i>		
The four-phase project replaces or repairs lighting and fencing in order to improve perimeter security at two state prisons. This year's request for Phase III makes additional repairs to the fencing and installs a non-lethal electrified fence surrounding the Fremont Correctional Facility. Phase I installed new security lighting in the north recreation yard at Arkansas Valley Correctional Facility, and funded a department-wide security audit and vulnerability analysis regarding perimeter security. Phase II replaced the transponders and microprocessor head in the motion detection system at Fremont, and began repairs to the perimeter fence. Phase IV will complete the fence repairs and analyze perimeter lighting at the facilities.		
14.20 2011-099	CCF	\$522,599
Trinidad State Junior College		
<i>Replace Security and Lock Systems</i>		
The project replaces the college's lock and security systems. The current system is a traditional, mechanical system with hard keys. The system requires constant maintenance and is nearly impossible to secure in an emergency situation due to its outdated hardware. The project installs an electronic access control system in 12 buildings on two campuses (Alamosa and Trinidad), which will reduce ongoing maintenance needs and improve security.		
14.30 2009-188	CCF	\$410,000
Otero Junior College		
<i>Expand Campus Video Surveillance and Electronic Access</i>		
The project extends electronic controlled access and video surveillance to campus buildings, open spaces, and parking lots to improve campus safety and security. It installs electronic access to high-use interior spaces and campus building entrances, and installs new internet-based surveillance video cameras in campus parking lots and within interior corridors. Currently, controlled access is limited to exterior entrances of designated buildings and very few interior spaces. The existing video surveillance is limited to the main dormitory.		

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Project Title	Fund Source	Amount
14.40 2014-082	CCF	\$1,384,871
Corrections		
<i>Replace Roof, Arkansas Valley Correctional Facility (Phase II of II)</i>		
<p>The two-phase project replaces the roof on the facility's administrative services wing. The leaking roof is creating the potential for property loss within the building. This year's request for Phase II replaces the roof over the following areas: programs, panel shop, warehouse, CAD shop, vocational education, laundry, dining, kitchen, library, clinical, support, and segregation. Phase I, which is being requested in FY 2013-14 as a Level I Controlled Maintenance project (see #2012-067), designs the project and replaces the most critical portions of the roof, over the gymnasium and visiting areas.</p>		
14.50 2012-061	CCF	\$851,433
University of Colorado at Boulder		
<i>Repair/Replace Building Electrical Services</i>		
<p>The three-phase project repairs or replaces electrical system components serving three campus buildings. The transformers serving these buildings are outdated, at or near electrical capacity, and "running hot," while the main gear serving the buildings is past its useful life and parts for it are unavailable. This year's request for Phase II upgrades the components in the Porter Biosciences Building. Phase I replaced the transformer in Norlin Library, and Phase III will replace the transformers and switchgear in Muenzinger Hall.</p>		
14.60 2014-083	CCF	\$673,759
Office of Information Technology		
<i>Replace Emergency Backup Generators and Propane Tanks</i>		
<p>The project replaces emergency backup generators at public safety digital trunk radio sites across the state. Some sites currently lack backup generators, and others have generators that are over 30 years old. Without backup generators, fires, heavy snow and ice storms, high winds, and tornados can all cause extended outages and interrupt the communications system.</p>		
14.70 2014-055	CCF	\$359,058
Colorado Mesa University		
<i>Replace Rooftop Unit, Wubben Science Building</i>		
<p>The project replaces various internal components of the existing rooftop unit providing hot and cold water to variable volume air handling units throughout the Wubben Science Building. Adding direct digital controls will allow operation in an energy saving setback mode, and connecting new coils into the campus-wide geothermal exchange system will result in significant energy savings.</p>		
14.80 2014-056	CCF	\$564,901
Auraria Higher Education Center		
<i>Improve ADA Accessibility, Tenth Street Pedestrian Corridor</i>		
<p>The three-phase project installs permeable pavers and raises the grade of the curbs along the 10th Street pedestrian corridor. In the course of this work, the project also makes storm water improvements, replaces buried chilled water piping, and provides cathodic protection to existing condensate and steam piping to reduce corrosion. The existing street cross-slopes are between 5 percent and 10 percent, exceeding the ADA maximum of 2 percent. Additionally, the steep crowns cause slippery and hazardous conditions during inclement weather, and the existing walking surface has deteriorated and cracked. This year's request for Phase I designs the entire length of the corridor from Colfax Avenue to Larimer Street and constructs walkway and drainage improvements from Colfax Avenue to north of Champa Street, addressing a building flooding issue in the Technology Building. Phase II will complete the improvements between Champa Street and Curtis Street, and Phase III will complete the improvements between Curtis Street and Larimer Street.</p>		
15.10 2001-150	CCF	\$282,647
Colorado Historical Society		
<i>Repair and Improve Grant Humphreys Mansion</i>		
<p>The project performs improvements and repairs to the Grant Humphreys Mansion, a History Colorado holding. The project assesses and repairs the building's porch and basement, and restores damaged wood-cased windows. The porch's structural integrity has been compromised by moisture seeping through spalled tiles and cracked concrete, and the broken tiles are a trip hazard. Additionally, the iron rails supporting the porch have rusted, and water seeping through the concrete has damaged the ceilings and walls of the basement below.</p>		
<p>Funding history. The project was originally requested and funded in FY 2007-08. Part of the funding was later rescinded during the 2009 legislative session due to the budgetary shortfall. \$58,976 of the original request was expended for design services.</p>		

FY 2013-14 Level II Controlled Maintenance Request

Project Title	Fund Source	Amount
16.01 2014-057	CCF	\$807,793
Colorado State University		
<i>Improve Fire Suppression System, Visual Arts Building</i>		
The project installs fire suppression sprinklers in the Visual Arts Building. A small addition being designed for the building will have sprinklers to meet code requirements, and the city fire department has expressed concern about responding to a building with only partial sprinkler coverage. Additionally, the building has a wood roof and houses sculpture, wood shop, and print studios that use flammable materials and welding torches.		
16.02 2014-058	CCF	\$237,245
Western State Colorado University		
<i>Repair/Replace HVAC Systems, Paul Wright Gymnasium</i>		
The project replaces the HVAC system in the wrestling area of the Paul Wright Gymnasium, including four fan coil units, four stand-alone convectors, and steam piping. The system is original to the 1960s building, and replacement parts are becoming obsolete. Two of the fan coil units no longer function, units lack temperature control, and the steam to the room can only be controlled manually.		
16.03 2014-059	CCF	\$724,677
Pikes Peak Community College		
<i>Replace Boiler, Centennial Campus</i>		
The two-phase project replaces the two boilers for the campus, housed in the Breckenridge Building mechanical room. Oxygen pitting, which is eating holes in the steel tubes, has compromised the integrity of the boilers. One boiler developed a leak in October 2011, had to be shut down until repairs could be made, and then developed another leak at the end of the heating season. The boiler has been retubed, but it is old and deteriorating. This year's request for Phase I replaces one boiler with five new, energy-efficient modular boilers. Phase II will replace the other boiler.		
16.04 2011-104	CCF	\$398,833
Arapahoe Community College		
<i>Replace Elevator Motor and Controls</i>		
The project replaces the elevator motors and controls in two elevators at the college's Main Building. The elevators have deteriorated and are failing on a weekly basis. Replacement parts are no longer available, and no major life safety or code upgrades have been completed since the elevators' installation in 1974. The project installs new AC hoist motors with variable frequency drive and velocity encoders, and new control panels with electronic microprocessors.		
16.05 2011-086	CCF	\$175,000
Colorado Northwestern Community College		
<i>Replace Roof, Yaeger Building, Rangeley Campus</i>		
The project reattaches a roof and repairs some soffit boards on the Yaeger Building, which houses the college's airplane repair program. Several years ago the south side of the roof was completely detached from the plywood roof decking by strong winds. Wood pallets and concrete blocks were used to hold the roof in place, but they were recently removed because they were deteriorating and leaving an impression in the rubber roof membrane.		
16.06 2009-176	CCF	\$248,591
Lamar Community College		
<i>Repair/Replace Barn Roofs and Outside Arena</i>		
The project replaces the roofs of two barns, makes repairs to structural components of the Hay Barn, and repairs the outdoor equine arena. The roofs of both barns show signs of deterioration due to weathering, including corrosion and failing roof panels. The project addresses the following deterioration in the Hay Barn: damaged main support posts, weathered fascia, and deteriorated inner cross bracings between the support posts. The project also repaints the pipe fencing and announcer's booth at the outdoor arena, which are weathered and rusting.		

FY 2013-14 Level II Controlled Maintenance Request

Project Title	Fund Source	Amount
16.07 2011-125	CCF	\$786,385
Human Services		
<i>Repair/Replace Roofs, South and West Districts, Division of Youth Corrections</i>		
The project replaces roofs at two Division of Youth Corrections facilities. The project addresses the support building and the residential building at the Pueblo Youth Services Center, and the residential buildings at the Grand Mesa Youth Services Center. The existing elastomeric membrane roofs are failing and will be replaced with built-up roofs.		
16.08 2013-066	CCF	\$291,813
Red Rocks Community College		
<i>Replace Roofs, Main Building, West Wing Bridge and Fire Science Classrooms</i>		
The project replaces the connected roof with a new-ballasted EPDM (synthetic rubber) roof and adds insulation. The area's existing roof is 20 years old, and its sealants and joints are starting to fail. The roof is tenting, and destroyed coatings have left the roof weak.		
16.09 2014-060	CCF	\$792,700
Public Safety		
<i>Repair Roof, Academy and Support Services Building</i>		
The project repairs and replaces three roofs at the Colorado State Patrol Academy. It also repairs a modular classroom unit attached to the main Academy Building, which will be moved and the foundation repaired. All three roofs are over 20 years old and leaking. The modular unit is beyond its useful life and has mold problems.		
16.10 2014-061	CCF	\$271,255
Pueblo Community College		
<i>Demolish and Rebuild Roof, San Juan Building</i>		
The project evaluates and removes the existing built-up roofing and installs a replacement roofing system, including an exterior tile roof along the east and south portions of the building. Leaks have persisted and continue to damage the building, despite numerous attempts to isolate and stop them over the last five years. Water damage is greatest in the elevator shaft, ceramics labs, art lab, and photography dark rooms.		
18.10 2014-062	CCF	\$247,940
Colorado Historical Society		
<i>Stablize Adobe, Fort Garland</i>		
The project stabilizes and makes repairs to the adobe plaster walls on the Calvary Barracks and Commandants Building. Efforts undertaken in the 1950s to protect the walls from deterioration had the opposite effect due to moisture infiltration. Deterioration of the chimneys and parapets, as well as erosion, has also harmed the adobe plaster. Further damage to the walls can compromise the buildings' structural integrity, and these buildings are important parts of the fort that are used frequently.		
18.20 2012-065	CCF	\$332,600
Fort Lewis College		
<i>Improve Storm Drainage, Central Campus</i>		
The project removes and replaces the storm sewers adjacent to the Student Life Center and Aquatic Center, which were not designed to accommodate five-year-flood storm flows. As a result, flooding in these buildings is a risk during heavy rain events, and this has occurred on several occasions. The flooding creates mold and mildew concerns, and also poses structural risks.		
Funding history. Funds were appropriated for storm drain improvements in FY 2007-08 (\$463,925 CCF) under a separate controlled maintenance project, but funding for the project was later reduced by \$366,581 in January 2009 due to the budgetary shortfall. The remaining \$97,344 was used for an engineering assessment of the existing drainage system and project design.		

FY 2013-14 Level II Controlled Maintenance Request

Project Title	Fund Source	Amount
18.30 2014-063	CCF	\$455,995
University of Colorado Denver		
<i>Upgrade HVAC, 2nd Floor West and 2nd Floor North, Building 500</i>		
<p>The project upgrades the HVAC distribution system on parts of the 2nd floor of Building 500 on the Anschutz Medical Campus, changing out the existing constant-volume system for a variable air volume distribution with hot water reheat and automated controls. Many of the building's air handling units were upgraded in previous controlled maintenance projects because of sub-standard performance and malfunctioning systems. This project continues the process of standardizing HVAC operations throughout the building over time.</p>		
18.40 2014-064	CCF	\$1,299,893
University of Colorado at Boulder		
<i>Upgrade HVAC, Mechanical Engineering Building</i>		
<p>The project makes a variety of upgrades to the HVAC system, including: modifying air handling units, installing pre-heat coils, repairing/replacing terminal boxes, modifying the return air system, replacing fume hood controls, modifying exhaust systems, repairing/replacing exhaust fans, and installing fire/smoke dampers to improve air circulation and indoor air quality for building occupants. The HVAC system has deteriorated, and comfort levels cannot be maintained in the building. Additionally, fume hood controls, emergency shower and eyewash installations, and exhaust air need to be upgraded to address life safety and code issues. This year's request for Phase I addresses the east half of the 1st floor basement, 1st floor, and 2nd floor, as well as the entire 3rd floor. Phase II will address the west half of the 1st floor basement, 1st floor, and 2nd floor.</p>		
18.50 2014-065	CCF	\$297,509
Morgan Community College		
<i>Upgrade Interior and Exterior Lighting and Replace Acoustic Ceiling, Cottonwood and Aspen Halls</i>		
<p>The project replaces interior lighting, upgrades exterior lighting, and repairs/replaces the acoustic ceiling in two connected portions of the main campus building. The current interior lighting uses outdated fixtures and aging ballasts. The exterior lights and light bollards are aging, and lighting is inadequate. Lighting upgrades will also improve energy efficiency. Finally, the area above the ceiling tiles contains numerous unused and outdated data wires and cables, which are a fire hazard.</p>		
18.60 2014-066	CCF	\$215,000
Lamar Community College		
<i>Assess and Upgrade Elevator, Trustees and Administration Buildings</i>		
<p>The project renovates the elevator in the Trustees Building and provides ADA accessibility to the administration wing of the Bowman Building. The elevator is original from 1971, and repair parts for the controller are difficult to acquire. The elevator car is also not up to current elevator code standards. The Bowman Building was designed with a breezeway between the classroom and administration wings, and the administration wing is not currently ADA accessible.</p>		
18.70 2007-048	CCF	\$281,068
Western State Colorado University		
<i>Repair/Replace Sewer Distribution System</i>		
<p>The project replaces a portion of the sewer system that services Western State Colorado University, including replacing or slip-lining over 1000 feet of existing deteriorated and collapsed pipelines, and installing 8 new manholes for routine maintenance. A sewage spill next to the Savage Library has been addressed temporarily, but would be prevented in the future by new piping and maintenance manholes. Previous controlled maintenance projects have addressed a large percentage of sewer distribution system needs throughout the campus.</p>		
18.80 2011-100	CCF	\$255,158
Adams State University		
<i>Replace Indoor and Outdoor Track</i>		
<p>The two-phase project replaces the indoor and outdoor tracks at Adams State College. Both tracks have experienced failure, including delamination. This year's request for Phase II removes the existing track surface for the indoor track, dries out the substrate, and applies a new impervious track surface. Phase I removed all of the existing outdoor track, asphalt, and subgrade; scarified, re-compacted, and applied new base and asphalt; and applied a new track surface.</p>		

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Project Title		Fund Source	Amount
20.10	2014-067	CCF	\$305,295
Front Range Community College			
<i>Upgrade for ADA Accessibility, Westminster Campus</i>			
The project repairs curb ramps at handicapped parking spaces, repairs interior doors to meet ADA clearance requirements, modifies electrical receptacles, and upgrades drinking fountains for ADA compliance. Mitigating these ADA deficiencies at the Main Building will help prevent injuries to students, employees, and visitors, and will provide equal access to the campus for people with disabilities.			
20.20	2012-069	CCF	\$698,270
Colorado State University — Pueblo			
<i>Replace Roof, Art and Music Building</i>			
The two-phase project replaces the roof on the Art and Music Building. The coating, concrete topping, planter wall curbs, skylight curbs, and old waterproofing membrane are no longer preventing water infiltration into the spaces below. As a result, water is entering construction joints in the concrete structure and leaking into the building's classrooms and art studios. Additionally, an exterior concrete staircase is spalling off chunks of concrete and steps are failing due to water damage. This year's request for Phase I removes the roof topping and membrane down to the existing concrete structure, installs a new roof system over the Hoag Recital Hall and the south wing of the building, and repairs the exterior stairs. Phase II will remove and replace the entire roofing system and insulation.			
20.30	2011-112	CCF	\$632,398
Colorado Mesa University			
<i>Repair Roof, Moss Performing Arts Center</i>			
The project replaces the roof on the Moss Performing Arts Center, which has continually experienced leaks. The project removes the rolled roofing, applies insulation to create positive drainage, and installs a fully adhered roofing membrane. Most of the building's roof was not designed to provide cross slope and adequate drainage.			

Total Request Amount	\$22,948,867
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