## **Colorado Mesa University**

Kinesiology Renovation and Expansion

## PROGRAM PLAN STATUS

2017-059

**Approved Program Plan** 

Yes

Date Approved:

October 12, 2018

## PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
СМИ	2 of 6	
CCHE	6 of 30	
OSPB	28 of 53	Not recommended for funding.

## PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	<u>Total Costs</u>
CCF	\$0	\$17,467,133	\$0	\$0	\$17,467,133
CF	\$0	\$5,822,379	\$0	\$0	\$5,822,379
Total	\$0	\$23,289,512	\$0	\$0	\$23,289,512

## ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	Total Cost
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$0	\$2,317,859	\$0	\$0	\$2,317,859
Construction	\$0	\$19,124,530	\$0	\$0	\$19,124,530
Equipment	\$0	\$594,665	\$0	\$0	\$594,665
Miscellaneous	\$0	\$143,434	\$0	\$0	\$143,434
Contingency	\$0	\$1,109,024	\$0	\$0	\$1,109,024
Total	\$0	\$23,289,512	\$0	\$0	\$23,289,512

### PROJECT STATUS

This is the project's third request for funding. Colorado Mesa University (CMU) received cash funds spending authority in 2016 for a similar project with a smaller scope.

### **Colorado Mesa University**

Kinesiology Renovation and Expansion

### PROJECT DESCRIPTION / SCOPE OF WORK

CMU is requesting a combination of state funds and cash funds spending authority to construct a 46,206-GSF addition to the permanent portion of the Maverick Pavilion, and to renovate 16,900 GSF within this permanent portion for use by the Kinesiology Department and other academic programs; once completed, the facility will also be used by athletics and intramural sports, and for special events. The expansion replaces a tent structure attached to the permanent portion of the Maverick Pavilion, which was installed in 2009 as temporary classroom space prior to the construction of the new Academic Classroom Buildings. The newly renovated and expanded Maverick Pavilion will feature:

- six basketball courts;
- a 2,700-GSF kinesiology instruction lab with court access, classroom space for 35 students and 5 instructors, and 5 training table stations;
- a lobby;
- · a cycling room;
- · a climbing wall;
- support areas; and
- a running track on the second floor that will attach to the existing running track in the Maverick Center via a bridge.

To make way for the expansion, the temporary tent structure will be relocated for use by the Athletics Department under a separate cash-funded project.

Cost assumption. The cost assumption was determined through the program planning process. The campus architect based the project's costs on the university's recently completed Engineering Building, with costs escalated for time. The cost per square foot is \$376. The project meets the Art in Public Places and High Performance Certification Program requirements.

#### PROJECT JUSTIFICATION

CMU points to program growth, regional demand for physical and health sciences graduates, and the need for a permanent building over the portion of the Maverick Pavilion currently covered by a temporary structure as the drivers behind the renovation and expansion.

From 2013 to 2017, the number of students graduating with a bachelor's degree in Kinesiology grew from 48 to 79, or 65 percent; the number of Athletic Training graduates grew from 8 to 14, or 75 percent; and the number of Exercise Science graduates grew from 11 to 54, or 390 percent. The Kinesiology Department produces about 13 percent of all of the university's bachelor degrees. CMU says a lack of dedicated space for the department has resulted in its classes being spread across athletic, recreation, and academic classroom spaces. Due to the proximity of the Maverick Pavilion to the planned PA/PT/OT Center, students from the new Physician Assistant (PA), Physical Therapy (PT), and Occupational Therapy (OT) programs within the Kinesiology Department will use the lab space in the newly expanded pavilion. Space is also limited for the Athletics Department and intramural and club sports.

CMU installed the temporary tent structure attached to the permanent portion of the Maverick Pavilion in 2009 for use as classroom space; it has since seen use for student life activities. The university says it must replace the tent covering every few years at a cost of about \$2.0 million, and it will be more cost-effective in the long run to build a permanent structure in its place. The covering was last replaced in 2016 and it is already developing leaks, thus jeopardizing the permanent infrastructure underneath it. When this project is undertaken, the tent structure will be relocated for use as sun cover over practice fields, where leaking will not be an issue. In addition, the streets surrounding the Maverick Pavilion present a drainage problem during storms, resulting in basement flooding in nearby campus buildings. The university says it will not be able to permanently correct the drainage issue until a permanent hard structure is erected in place of the tent structure.

### **Colorado Mesa University**

Kinesiology Renovation and Expansion

### PROGRAM INFORMATION

Kinesiology is the study of movement, and within higher education the field studies the causes and consequences of physical activity in a multidisciplinary manner, covering areas ranging from sports medicine to psychology to physiology. CMU says the study of kinesiology can lead to a variety of careers in teaching, research, coaching, fitness, health promotion, rehabilitation, and sports medicine. CMU's Kinesiology program offers three bachelor's degrees, an associate's degree, two minors, and four graduate programs. The university expects the Kinesiology undergraduate programs to be feeders to its new Athletic Training, PA, PT, and OT programs, and a secondary feeder to its nursing programs.

The university's Athletics program consists of almost 800 student-athletes participating in 26 sports, while its club sports program consists of about 500 student-athletes participating in 30 sports. The intramural program consists of 3,000 participants.

### PROJECT SCHEDULE

	Start Date	Completion Date
Design	May 2021	July 2021
Construction	July 2021	August 2022
Equipment	August 2022	August 2022
Occupancy	August 2022	

#### SOURCE OF CASH FUNDS

The source of cash funds for this project is campus reserves, institutional funds, and fundraising. The university notes that no student fee proceeds will be dedicated to the project.

#### OPERATING BUDGET

Operating expenses are paid from institutional sources. CMU estimates operating expenses at \$4.62 per square foot for the new space, or \$213,472 per year. The university says it has budgeted for these expenses.

### STAFF QUESTIONS AND ISSUES

1. On the Cost Summary form, the infrastructure service/utilities line has increased by \$100,000 from last year's request. Can you please elaborate on this additional cost?

Based on our work on other projects in the vicinity of this proposed project, it was determined that this project would likely require a larger modification/upgrade to our campus electrical system than originally anticipated.

## **Colorado Mesa University**

Electrical and Computer Engineering Building

### PROGRAM PLAN STATUS

2020-037

**Approved Program Plan** 

Yes

**Date Approved:** 

October 12, 2018

## PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
СМИ	3 of 6	
CCHE	15 of 30	
OSPB	37 of 53	Not recommended for funding.

## PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	<u>Total Costs</u>
CCF	\$0	\$19,227,574	\$0	\$0	\$19,227,574
CF	\$0	\$3,938,179	\$0	\$0	\$3,938,179
Total	\$0	\$23,165,753	\$0	\$0	\$23,165,753

## ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	Total Cost
Land Acquisition	\$0	\$761,000	\$0	\$0	\$761,000
Professional Services	\$0	\$1,570,405	\$0	\$0	\$1,570,405
Construction	\$0	\$18,553,407	\$0	\$0	\$18,553,407
Equipment	\$0	\$1,060,055	\$0	\$0	\$1,060,055
Miscellaneous	\$0	\$153,993	\$0	\$0	\$153,993
Contingency	\$0	\$1,066,893	\$0	\$0	\$1,066,893
Total	\$0	\$23,165,753	\$0	\$0	\$23,165,753

### PROJECT STATUS

This project was requested for funding in FY 2019-20. Colorado Mesa University (CMU) sought funding to construct a building for its Engineering and Computer Science programs in FY 2016-17. When the project was not funded, the university constructed the building using cash funds, rescoping the project to house the Engineering Department and the John McConnell Math and Science Center. The new building, now called Confluence Hall, opened in spring 2018.

### **Colorado Mesa University**

Electrical and Computer Engineering Building

### PROJECT DESCRIPTION / SCOPE OF WORK

CMU is requesting a combination of state funds and cash funds spending authority to construct a three-story, 38,481-GSF academic building to house its Electrical and Computer Engineering program and the Computer Science Department, and to provide space for growing engineering programs housed in the adjacent Confluence Hall. The new building will provide specialized learning space for several of the university's growing STEM programs, while freeing up vacated space for other growing disciplines. The new building includes:

- eight group study rooms;
- a 1,200-GSF multipurpose classroom;
- four computer labs;
- · four project labs;
- two team shops;
- 14 student/faculty interactive spaces;
- a conference room;
- specialty labs, including labs for Unix/Linux, radio frequency, power measurement, circuits, servers, welding, and robotics; and
- administrative support spaces.

Laboratory space features program-specific equipment and work stations to facilitate collaborative, hands-on learning. The new building also includes a bridge connecting it to Confluence Hall.

Cost assumption. The cost assumption was determined through the program planning process and by using the costs for building Confluence Hall, escalated for time. The cost per square foot is \$602. The project meets the Art in Public Places and High-Performance Certification Program requirements.

#### PROJECT JUSTIFICATION

The university says its campus lacks sufficient space to accommodate the growth of several of its engineering and computer science disciplines, and the space currently dedicated to these programs is operating at maximum capacity and inadequate for the types of instruction involved. Growth in these programs is being driven by workforce demand for engineers and other STEM graduates on the Western Slope and beyond. The building's location will also supplement a growing campus engineering and computer science nexus, and help to support partnerships with businesses located in a nearby enterprise zone. Finally, space vacated by programs moving to the new building will benefit other growing campus programs.

Project alternatives. CMU considered allocating space in Confluence Hall to new engineering programs, but this would have left the Computer Science Department in Wubben Hall, which is a third of a mile away, and would not have allowed for expansion of programs in Wubben. Confluence Hall's design reserved about 10,000 GSF to accommodate the Civil and Mechanical Engineering programs, but the addition of the Electrical and Computer Engineering program has outstripped the building's capacity. Finally, the university looked into renovating a nearby church for Electrical and Computer Engineering, but the building is not large enough to fit the entire program, and splitting the program between buildings would have created inefficiencies. The university says it may be able to phase the project.

#### PROGRAM INFORMATION

CMU offers five engineering degree options: Bachelors of Science degrees in Mechanical Engineering, Civil Engineering, Electrical and Computer Engineering, and Mechanical Engineering Technology; and an Associate of Applied Science degree in Mechanical Engineering Technology. The university says it is one of only a handful of universities in the nation that offers this array of degrees within a single department. Graduates of the new Electrical and Computer Engineering program will have comprehensive knowledge and experience in the concepts and design of electrical, electronic, and computer devices, circuits, and systems, as well as experience in software development, according to the university. The Computer Science Department offers a Bachelor of Science in Computer Science, an Associate of Science Liberals Arts Computer Science emphasis, and a Minor in Computer Science. CMU says co-locating Computer Science with Electrical and Computer Engineering will lead to efficiencies, since the engineering field draws heavily on computer science principles.

### **Colorado Mesa University**

Electrical and Computer Engineering Building

### PROJECT SCHEDULE

	Start Date	Completion Date
Design	May 2021	August 2021
Construction	August 2021	June 2022
Equipment	June 2022	July 2022
Occupancy	July 2022	

### SOURCE OF CASH FUNDS

The source of cash funds for this project is campus reserves and fundraising. CMU notes that no student fee revenues will be used for the project.

### **OPERATING BUDGET**

Operating expenses are paid from institutional sources. CMU estimates that the new building will cost \$4.62 per square foot to operate, or \$177,782 per year, and has budgeted for this cost.

## STAFF QUESTIONS AND ISSUES

None.

### **Colorado Mesa University**

Performing Arts Expansion and Renovation

## PROGRAM PLAN STATUS

2016-044

**Approved Program Plan** 

Yes

**Date Approved:** 

September 5, 2019

## PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
СМИ	4 of 6	
CCHE	19 of 30	
OSPB	38 of 53	Not recommended for funding.

## PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	<u>Total Costs</u>
CCF	\$0	\$4,564,751	\$27,549,356	\$0	\$32,114,107
CF	\$0	\$451,460	\$2,724,663	\$0	\$3,176,123
Total	\$0	\$5,016,211	\$30,274,019	\$0	\$35,290,230

## ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2021-22	FY 2022-23	<u>Future Requests</u>	<u>Total Cost</u>
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$0	\$2,554,334	\$1,023,750	\$0	\$3,578,084
Construction	\$0	\$2,097,405	\$26,184,541	\$0	\$28,281,946
Equipment	\$0	\$170,643	\$1,716,750	\$0	\$1,887,393
Miscellaneous	\$0	\$16,989	\$212,095	\$0	\$229,084
Contingency	\$0	\$176,840	\$1,136,883	\$0	\$1,313,723
Total	\$0	\$5,016,211	\$30,274,019	\$0	\$35,290,230

## PROJECT STATUS

This is the seventh request for funding. Funding has been requested for the project each year since FY 2015-16.

### **Colorado Mesa University**

Performing Arts Expansion and Renovation

### PROJECT DESCRIPTION / SCOPE OF WORK

Colorado Mesa University (CMU) is requesting a combination of state funds and cash funds spending authority to renovate 12,379 GSF in the Moss Performing Arts Building and construct a 42,550-GSF addition to the building. The project will provide teaching, practice, and performance space in support of undergraduate music and theater programs. The project fully renovates Robinson Theatre, located inside the Moss Performing Arts Building, to improve safety conditions and meet current seismic codes.

The renovation and expansion of the Moss Performing Arts Center will also feature:

- a dance studio/theater;
- theater instruction and rehearsal space;
- prop storage;
- · dressing rooms;
- · an acting studio;
- a theater design studio;
- renovated scene and costume shops;
- lighting and acoustic improvements in Love Recital Hall;
- support space for Moss Experimental Theatre;
- a theater lobby; and
- a four-room, multi-disciplinary and flexible academic instruction space that can be combined into one room.

The renovations to Moss will replace outdated performing arts lighting and stage communication systems, and address vibration and acoustical deficiencies. These improvements will help alleviate the Music Department's encroachment on Theater Department space in Moss. The new classroom space will allow the university to expand a new, team-taught, three-credit-hour, general education course called the Maverick Milestone for students midway through their program requirements, along with its co-requisite course, Essential Speech. These courses require students to integrate what they have learned in their general education courses, and to demonstrate written and oral communication proficiency.

Cost assumption. The cost assumption was determined through the program planning process. Costs were based on the university Academic Classroom Building II project. The cost per GSF for all phases of the project is \$615. The project accounts for future inflation, and meets the Art in Public Places and High Performance Certification Program requirements.

## PROJECT JUSTIFICATION

According to the university, the project will improve safety for building users, providing them with a more welcoming and supportive facility; improve student recruitment by supporting the growth of the university's arts programs; provide uniquely designed academic instruction space to meet the needs of diverse and growing program areas; and improve the facility's energy use.

The university says growth in the programs that will be affected by the project is driving the need for new instruction space. Specifically, enrollment in the Music Department grew from 98 majors in 2013-14 to 136 majors in 2017-18. For most theater productions and concerts, green room space is insufficient to accommodate all the performers. And the university intends to add a new degree program in design/tech in 2020-21.

According to CMU, the project will benefit the whole campus community because it improves academic classroom space for multiple degree programs, and reduces use of space in other buildings by the Music and Theater Departments. CMU says growth in the Music Department has increased its space usage in the Moss Performing Arts Center, limiting the ability of the Theater Department to use the space. The renovated and expanded Moss Center will feature technology specifically suited for the performing arts, while the design will allow for flexibility to accommodate other academic needs. In addition, the project will create appropriate space for speech courses, which are currently located in rooms not designed for the curriculum.

### **Colorado Mesa University**

Performing Arts Expansion and Renovation

### PROGRAM INFORMATION

Moss Performing Arts supports four bachelor's degree programs and one minor in music; three bachelor's of fine arts programs, two bachelor's programs, three minors in theater, dance, and speech; and integrated learning programs. Moss also hosts between 15,000 to 20,000 visitors per year, and the Music Department offers three summer camps for students. CMU student club and community theater events are also hosted in Moss.

### PROJECT SCHEDULE

	Start Date	Completion Date
Design	June 2021	December 2021
Construction	January 2022	June 2022
Equipment	June 2022	August 2022
Occupancy	August 2022	

### SOURCE OF CASH FUNDS

The source of cash funds for the project is a combination of institutional reserves and fundraising.

### OPERATING BUDGET

Operating expenses are paid from institutional sources. CMU estimates operating expenses at \$4.62 per square foot for the new space, or \$61,459 per year.

## STAFF QUESTIONS AND ISSUES

None.

## Colorado Mesa University Energy Independence at CMU

## PROGRAM PLAN STATUS

2015-008

Approved Program Plan No Date Approved:

## PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
СМИ	5 of 6	
CCHE	24 of 30	
OSPB	40 of 53	Not recommended for funding.

## PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	<u>Total Costs</u>
CCF	\$0	\$6,924,309	\$0	\$0	\$6,924,309
CF	\$0	\$684,823	\$0	\$0	\$684,823
					4
Total	\$0	\$7,609,132	\$0	\$0	\$7,609,132

## ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	Total Cost
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$0	\$2,379,000	\$0	\$0	\$2,379,000
Construction	\$0	\$1,058,500	\$0	\$0	\$1,058,500
Equipment	\$0	\$3,600,000	\$0	\$0	\$3,600,000
Miscellaneous	\$0	\$9,632	\$0	\$0	\$9,632
Contingency	\$0	\$562,000	\$0	\$0	\$562,000
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Total	\$0	\$7,609,132	\$0	\$0	\$7,609,132

## PROJECT STATUS

This is the seventh request for funding. Funding has been requested for the project each year since FY 2014-15, except for FY 2019-20, though the scope of the request has changed over time.

Colorado Mesa University Energy Independence at CMU

### PROJECT DESCRIPTION / SCOPE OF WORK

Colorado Mesa University (CMU) is requesting state funds and cash funds spending authority to expand the campus-wide geo-exchange and solar panel systems for power generation. The geo-exchange system will provide a cleaner, more energy-efficient means of heating, cooling, and providing domestic hot water. The solar panel system installs 1.1 megawatts of rooftop solar panels, 2,000 kilowatt hours (kWh) battery capacity, and a 500 kW 2-way inverter/charger. This system will collect and store energy to be used during periods of peak demand, and will thereby allow CMU to avoid high-demand charges.

For the geo-exchange system, the project will install an additional loop field, heat pumps, central loop systems, and necessary hardware elements (vaults, pumps, valves, sensors, and controls). The new loop field will connect to existing loop fields, existing boilers, and cooling towers. The existing boilers and cooling towers will only be used to either add energy (boilers) or to take energy away (cooling towers) from the system during periods of peak demand.

The system will also connect the campus's irrigation ditch water to the geo loop via a heat exchanger (HX). As the Colorado River (irrigation water) flows by the campus, a series of vaults, pumps, filters, and open plate heat exchangers will be used to capture colder river temperatures to help modulate temperatures in the central loop. The existing diversion vault will be used to capture the water that is warmed up during this process so that it will be used on campus and not sent down stream. This system will be most effective in the springtime because the colder river temperatures will allow the geo-exchange system to pre-cool the ground and the loop fields between April and July. This will provide extremely efficient HVAC cooling on hot summer days. The system would then be used in the late fall to charge the loop fields for the winter. A cooling tower will also be added to help modulate temperatures in the central loop when the irrigation system is not being used.

CMU may submit later phases of the project that will convert every existing building from traditional heating and cooling systems to the more efficient heat pump systems; however, as a building's conversion requires the entire building to be off-line, CMU will need to take a phased approach to avoid shutting down large parts of campus at the same time.

Cost assumption. The cost assumption was determined through the planning process. The project meets the Art in Public Places and High Performance Certification Program requirements.

#### PROJECT JUSTIFICATION

The university says the additions to the geo-exchange system will improve the performance and safety of the existing system, which is at capacity. The system cannot currently meet the cooling demands of the connected load during peak demand. Campus electrical demand is also rapidly approaching the maximum capacity of the existing electrical feeds to the site from Xcel Energy. According to CMU, the combination of solar panel system and battery storage is crucial to avoiding a costly new electrical feed to the campus.

Project alternatives. The university formerly submitted this project with a significant trigeneration component in lieu of geo-exchange and solar power generation. CMU says it has returned to focus on geothermal and solar as the economics of green energy sources have changed. The university also considered extending an additional electrical feed to the main campus, though CMU does not favor this option as it would not reduce CMU's dependence on traditional energy sources.

#### PROGRAM INFORMATION

The university consumes approximately 23.5 million kWh of electricity per year, with a peak demand low of 3,055 kW in the winter months and a high of 4,298 kW during the summer. Xcel Energy is the campus energy provider, and the university employs several green technologies in its energy portfolio.

Colorado Mesa University Energy Independence at CMU

## PROJECT SCHEDULE

	Start Date	Completion Date
Design	June 2021	Sept 2021
Construction	Sept 2021	August 2024
Equipment		
Occupancy	August 2024	

## SOURCE OF CASH FUNDS

The source of cash funds for the project is institutional reserves and fundraising.

## **OPERATING BUDGET**

Operating expenses are paid from institutional sources. According to the university, increased operating costs resulting from hiring highly skilled technical support staff will be offset by long-term energy savings. See the response to question number 2 in staff questions and issues for further information on these savings.

Colorado Mesa University Energy Independence at CMU

### STAFF QUESTIONS AND ISSUES

1. When this project was last submitted, CMU indicated that the additional electrical feed from Xcel Energy would provide power for an expanding campus and will be needed at some point in the future, regardless of the decision to fund the Energy Independence project. Is this still the case? If so, when is it estimated that the new Xcel feed will be necessary? Is the cost for the new Xcel feed still expected to be \$1.0 million? Please describe any recent discussions with Xcel about a new campus electrical feed.

Recent discussions with Xcel have presented concerns about having two separate electrical services for the CMU campus. Xcel Energy has presented the following alternative options.

- 1. Option 1 Install a new second switch electrical service feed further west of the existing campus service.
- 2. Option 2 was removed from consideration.
- 3. Option 3 Add switch bay to the existing CMU lineup with CMU cabling to the new lineup. No utility work required. This was determined to require a one-week to ten-day shutdown of the entire campus electrical system so was not a viable option.
- 4. Option 4 Install a new 600A primary meter cabinet that is sourced with relocated utility feed.
- 5. Option 5 Install new sectionalized switch near 7th and Elm and new electrical service near the Confluence Hall Building.

Since our initial discussions with Xcel, several of their key staff positions have had turnover. In recent conversations with the new staff about the pros and cons of each option, it was decided to proceed with option 1. Xcel Energy expressed its concern about connecting the two services together but agreed that option 1 was still acceptable. It was proposed to identify each new loop or portions of a loop with the source and origin of the feeder conductors to prevent future projects from connecting two separate utility power sources by mistake. This option will provide the necessary capacity to support the PA/OT/PT Building and other needs for the foreseeable future. The cost of this option is estimated to be \$1.3 million.

- 2. What amount of cost savings does the university anticipate annually as a result of this project?
- 1.1MW of rooftop solar photovoltaic, 2,000 kWh of battery capacity, and 500 a kW 2-way inverter/charger will provide an estimated 1,828,620 kWh/yr with an estimated savings of \$175-195k/yr. Other measures could provide annual savings of \$91-\$36k/yr. This gives the payback time of the solar panels as 24 years. With panels lasting 25-30 years, the payback time is not substantially shorter than the life of the panels, but rather provide a green and sustainable energy source during a period when other energy sources may become more expensive.
- 3. Does CMU anticipate adding additional loops in the future? If so, when does the university expect to need additional loops?

Yes, we still anticipate the need for future loops. Our current system is about 2,000 tons short in terms of its cooling capacity based on our current and anticipated building inventory. That equates to something like 400,000 sf of loop fields at our typical depth and spacing. The "anticipated" building inventory includes the buildings that we have submitted as capital requests as well as the existing buildings on campus that are not yet served by the Geo Exchange system. For the buildings on campus we need the loops as soon as possible in order to realize the inherent savings. For the future buildings it obviously is dependent on when we receive funding for those buildings. In order to most efficiently design the buildings, having the loop fields in place prior to building those new facilities is prudent.

## Colorado Mesa University Student Parking Garage

### PROGRAM PLAN STATUS

2013-024

**Approved Program Plan** 

Yes

**Date Approved:** 

October 12, 2018

## PRIORITY NUMBERS

Prioritized By	<u>Priority</u>	
СМИ	6 of 6	
CCHE	21 of 30	
OSPB	39 of 53	Not recommended for funding.

## PRIOR APPROPRIATIONS AND REQUEST INFORMATION

Fund Source	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	<u>Total Costs</u>
CCF	\$0	\$22,670,495	\$0	\$0	\$22,670,495
CF	\$0	\$2,242,138	\$0	\$0	\$2,242,138
Total	\$0	\$24,912,633	\$0	\$0	\$24,912,633

## ITEMIZED COST INFORMATION

Cost Item	Prior Approp.	FY 2021-22	FY 2022-23	Future Requests	Total Cost
Land Acquisition	\$0	\$0	\$0	\$0	\$0
Professional Services	\$0	\$2,724,534	\$0	\$0	\$2,724,534
Construction	\$0	\$20,504,928	\$0	\$0	\$20,504,928
Equipment	\$0	\$310,260	\$0	\$0	\$310,260
Miscellaneous	\$0	\$186,595	\$0	\$0	\$186,595
Contingency	\$0	\$1,186,316	\$0	\$0	\$1,186,316
Total	\$0	\$24,912,633	\$0	\$0	\$24,912,633

## PROJECT STATUS

This project was requested for funding in FY 2020-21. Colorado Mesa University (CMU) requested cash funds spending authority in 2012 and 2016 to build a student parking garage, but the project was never initiated.

Colorado Mesa University Student Parking Garage

### PROJECT DESCRIPTION / SCOPE OF WORK

CMU is requesting a combination of state funds and cash funds spending authority to construct a 265,000-GSF, five-level, 818-space parking garage on the eastern end of the main campus to alleviate a commuter student parking deficit that has been exacerbated by construction on former surface lots. The garage will be made of pre-cast concrete and feature a panelized facade with a masonry aesthetic to blend with the existing campus architecture. All levels will be above grade and accessible through stairs and elevators. The new structure will be built on the site of an existing surface parking lot.

Cost assumption. The cost assumption was determined through the program planning process, and by consulting with contractors with experience building similar facilities for other universities. These contractors indicate that CMU can expect to pay \$22,000 per space for construction. A third-party review of the program plan was conducted by an architect, who concluded that the cost estimate for the project is consistent with current market conditions. The cost per square foot \$96. The project accounts for inflation. The project meets the Art in Public Places and High-Performance Certification Program requirements.

#### PROJECT JUSTIFICATION

The CMU campus has a commuter parking deficit of 904 spaces based on a demand analysis focusing on the commuter population, and will continue to have a 189-space deficit after the new parking garage is built. Surface parking lots have been lost due to construction of Confluence Hall and the development of the East/West Mall. CMU projects continued strong student population growth, both commuter and residential, particularly with the addition of several new academic programs. The university explains that there is limited land available near campus for expansion. A multi-level garage will allow vehicles to be consolidated into higher density parking, freeing up surface lots and parcels acquired by the university as sites for the construction of additional academic and residential facilities. The consolidation will also allow for easier parking enforcement.

Project alternatives. CMU considers building more surface parking lots to be the only alternative to the project, which the university does not consider the best use of available land. Additionally, the university says accelerated property acquisition will likely drive up land prices, and notes that surface parking lots are not optimal in terms of safety and campus aesthetics.

#### PROGRAM INFORMATION

The CMU main campus parking inventory includes two parking garages and 16 residential, 13 commuter, 4 mixed, 3 value, 2 reserved, 2 faculty, and 2 retail surface parking lots with a total of 4,266 spaces, including 1,476 commuter spaces. The number of commuters enrolled at CMU was most recently estimated at 7,933.

### PROJECT SCHEDULE

	Start Date	Completion Date
Design	Sept 2021	November 2021
Construction	November 2021	November 2022
Equipment	November 2022	December 2022
Occupancy	December 2022	

### SOURCE OF CASH FUNDS

The source of cash funds for this project is university internal funds or fundraising. The university notes that no student fee moneys will be used for the project.

#### **OPERATING BUDGET**

Operating expenses are paid from institutional sources. CMU estimates operating expenses at \$3.04 per square foot, or \$644,480 per year. The university says it has budgeted for these expenses.

Colorado Mesa University Student Parking Garage

STAFF QUESTIONS AND ISSUE	STAFF	UEST	<b>IONS</b> A	ND I	SSU	JES
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Responses to questions have been incorporated into the project write-up.