Capital Improvement Budget Request 2020

revision date 8-4-20

Agency/Institution
Bridgerland Technical College

Priority Classification	(check one) 90	(check one) 10	Agency Priority	Energy Component (yes or no)	Project Name	Cost Estimate	Facility Condition Assessment (FCA) Information F+G Project #	Project Description/Justification	Building Risk ID #	Early Design	Justification
1 - Life Safety	X		1	Yes	**Main Campus - Culinary Arts - Walk-In Refrigerator/ Freezer Refrigeration systems. Replace flooring, appliances, plumbing fixtures, and lighting in the classroom, demonstration kitchen area.**	**$ 1,150,000.00**	**F&G Project #57859,57862, 57863, and 57860 FCA-117094, Item #D3010-D3050**	Culinary Arts - Currently the refrigeration equipment for the walk-in freezers in the Culinary Arts department are exhausted into the lab area creating excessive noise and heat. These systems need redesigned and upgraded, relocating or venting the compressors and condensers to the exterior of the building will reduce noise and increase energy efficiency. The demonstration kitchen and classroom are at the end of its useful life and needs to be replaced. This project also includes updating to current food safety standards. i.e., temperature, flooring, surfaces, lab equipment.	7471	Yes	Early design and engineering will allow for this project to start in the first quarter so it can be completed by fall to accommodate student load.
2-Critical	X		2	Yes	**West Campus - Replace EPDM Single-ply Membrane**	**$ 1,003,218.00**	**F+G FCA DFCM Project No 10194300/Contract # 117094 Section B3011 Item 60916**	Replace the existing roof with new roofing material without the gravel ballast. The EPDM single-ply roof membrane is in poor to fair condition, as it has had numerous repair. Based on the typical EUL of twenty years and condition, we expect replacement is necessary. The roof has been in place past its rated recommended life expectancy.	10004	Yes	Early design and engineering will allow for this project to start in the first quarter so it can be completed by fall while the weather is good.
3 - Necessary	X		3	No	**Logan Campus Master Plan**	**$ 200,000.00**	**N/A - Future Planning Guidance**	With the new Health Sciences building being added to the campus, we are needing a professional master plan to locate "like" programs in dedicated areas within our Logan Campus facilities. Doing so will improve the efficiency, image, and atmosphere of all programs that our college offers.	7471, 10004		
2-Critical	X		4	Yes	**Main Campus - Hallway flooring, lighting replacement, wall refinishing**	**$ 750,000.00**	**F+G FCA DFCM Project No 10194300/Contract # 117094 ID# D5022**	Building Renovation/Floor Replacement: Replace the main hallway flooring with a durable material, update the corridor lighting to LED fixtures, and repaint halls and overhead beams. This aesthetic update reflects our College goal of training that is current and high tech. Life Safety Update: The flooring in the main hallway has been in place since the building was occupied in 1977. Some of the flooring has become loose and is uneven in places that creates a tripping hazard.	7471		
2-Critical	X		5	Yes	**Main Campus - Replace BUR System With Gravel Ballast that is on the south end of the building**	**$ 1,800,000.00**	**F+G FCA DFCM Project No 10194300/Contract # 117094 ID#57830**	The BUR roof covering has exceeded the typical EUL of twenty-years for this type of roof covering. There are several leaks appearing. Remove the BUR and ballast and replace with Single-ply PVC or similar material roof matching the rest of the building.	7471	Yes	Early design and engineering will allow for this project to start in the first quarter so it can be completed by fall while the weather is good.
2-Critical	X		6	Yes	**Main Campus - Replace single ply roof that is on the north end of the building**	**$ 2,000,000.00**	**F+G FCA DFCM Project No 10194300/Contract # 117094 ID#57830**	Remove the existing single-ply roofing material and install a new roofing system that will have the same warranty period that the south roof will have.	7471	Yes	Early design and engineering will allow for this project to start in the first quarter so it can be completed by fall while the weather is good.
3 - Necessary	X		7	Yes	**Main Campus, Isolation valves in hot water heating system main and branch lines.**	**$ 150,000.00**	**Work orders have been called in and temporary repairs have been completed.**	The hot water heating system infrastructure is aging and some of the valves and several dielectric unions are leaking and need replaced. Section and Branch isolation valves need to be installed to allow for repair without draining all of the glycol in the system. By doing this we can keep the system running while repairing a section.	7471		

3 - Necessary	X	**8**	Yes	**Main Campus, West Campus - Improve the power factor in the electrical systems.**	**$**	**150,000.00**	**Line item on monthly electrical power bill**	To help eliminate power factor penalties, a study and updates need performed to help reduce the $15,000 to $20,000 per year Power Factor penalties currently being assessed by the power provider at Logan-Main and West Campuses.	7471, 10004
2-Critical	X	**9**		**Main Campus - Glazed Skylights (reseal, replace with Obscure glass or remove)**	**$**	**100,000.00**	**F+G FCA DFCM Project No 10194300/Contract # 117094 ID#57831**	The glazed skylight systems are in poor to fair condition. The sealant at the windows is in poor to fair condition. Through exposure to moisture, heat, and ultraviolet radiation, the sealant has lost its movement capabilities due to loss of plasticizers. Sealant such as this has a typical EUL of fifteen years; therefore, it will need replacement with a suitable polyurethane sealant in the near-term to maintain water integrity and prevent water penetration. There have been multiple issues with these skylights. Replacement or removal will improve the energy efficiency, functionality, and appearance.	7471

1 - Life Safety	X	**10**	Yes	**Main Campus Parking Lot Lighting**	**$**	**30,000.00**	**F+G FCA DFCM Project No 10194300/Contract # 117094 ID#57941, 57942 D5022**	Main Campus - parking lot lighting is insufficient to safely or efficiently light the parking lots. After dark, there is a serious life-safety concern because there isn't enough light for constituents to safely navigate the parking lot and obstacles therein. In addition, the existing lighting has been in place for more than 30 years and is extremely inefficient. Replacing the current lighting with new LED systems is imperative.	7471
2-Critical	X	**11**	Yes	**Brigham City Campus - Backup Generator and Facility Improvements**	**$**	**120,000.00**	**N/A**	BTECH occupies the DFCM-owned Brigham City Educational Complex on 1100 South in Brigham City. As BTECH expands programs into this facility, the need to modify areas for specific program functions is required. Developing the Information Technology program at the Brigham City facility requires updating labs for their specific requirements and providing essential infrastructure. Also, the need for a backup generator option is needed to facilitate both BTECH and USU infrastructure. The fiber optic lines for both USU's branch campus building and existing facilities, as well as BTECH, all run through this facility; and if power is lost, all of these buildings are left without network connection. This would result in shutting all buildings down. Even if power remains at the new USU building, they are left without the ability to communicate. It is in hopes that the generator request for improvements will be pursued by DFCM, but BTECH also wants to cover any possible contingency by submitting this request.	8441
3 - Necessary	X	**12**	Yes	**West Campus HVAC System upgrade Phase IV.**	**$**	**650,000.00**	**FCA-FM-96150, building 10004, item HV3A**	Replace air handlers, exhaust fans, ductwork, VAV's, VFD's, DDC's, heat exchangers, pumps, piping, electrical connections, and demolition of existing system. Rooms 1919, 1912, 1906, 1908, 1918, 1806, and 1835 need automated controls added and system upgrades to be able to regulate classroom and lab air temperatures. The FCA estimated the total HVAC system retrofit/replacement cost at just over $3.5 million. BTECH is requesting funding for Phase IV of the multi-year phased project. At $550,000 per year, the project will take approximately seven years to complete.	10004
				Total Amount Requested for FY 21	**$**	**8,103,218.00**			

Priority Classification
1 Life Safety
2 Critical
3 Necessary
4 Programmatic

This example shows how to complete a Capital Improvement Need Statement. **Columns 2-11 REQUIRED:** (A) Priority Classification: 1-Life safety, 2-Critical,3-Necessary, 4-Progromatic (B) 90% -10% Legislative Capital Improvement Requirement (C) Agency/Institution Priority (**5**) Facility Type/Classification: Class1, Class 2, Class3-Office, Classroom, Laboratory, Infrastructure, etc. (**6**) Energy Component: Projects that address building energy efficiencies, energy saving components and/or reduce operating cost (**7**) Name of the Project: (**8**) Cost Estimate, (**9**) Condition Assessment Report or deficiency # and Any Other Report or Study on the Building, (**10**) the Description/Justification for the Project (**11**) Building Risk ID #