

### Capital Improvement Request FY20-21

Agency/Institution  
Bridgerland Technical College

Priority Classification	Agency (check one)		Agency Priority	Energy Component (yes or no)	Project Name	Cost Estimate	Facility Condition Assessment (FCA) Information		Project Description/Justification	Building Risk ID #
	90	10					F+G Project #			
2-Critical	X		1	Yes	Main Campus - Meat Services Lab Area - Cooling System and Walk-In Refrigerator/ Freezer Refrigeration systems.	\$ 600,000.00	F&G Project #57855,57854, 57858, and 57857 FCA-117094, Item # D3010-D3050		Meat Services - Currently the lab's temperature cannot be maintained at the suggested temperature of 55 degrees for proper meat handling and food safety conditions. An updated and more efficient cooling system for the lab environment is needed. Replacing or eliminating the southern exposure sky lights would also decrease the heat load in the lab area. Replace the split system walk-in and display cooler condensor units. This project also includes updating to current food safety standards. i.e., temperature, flooring, surfaces, lab equipment.	7471
2-Critical	X		2	Yes	Main Campus - Culinary Arts - Walk-In Refrigerator/ Freezer Refrigeration systems. Replace flooring, appliances, plumbing fixtures, and lighting in the classroom, demonstration kitchen area.	\$ 500,000.00	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
1 - Life Safety	X		3	No	Main Campus, West Campus, Brigham City Campus - Waterless Fire Suppression systems in IT/ Server Data Rooms	\$ 300,000.00	2018 Risk Audit Item 14		Waterless fire suppression systems are needed in all server rooms and data centers to avoid major electrical damage of critical servers in case of fire or accidental discharge of water-based fire system. Various types of gaseous clean agents are available. FM-200 is commonly use agent for datacenter fire suppression.	7471, 10004, and 8441
3 - Necessary	X		4	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 Campus - Main and West buildings.	7471, 10004
1 - Life Safety	X		5	Yes	Main Campus Parking Lot Lighting	\$ 60,000.00	F+G FCA DFCM Project No 10194300/Contract # 117094 ID#57941, 57942 D5022		Logan Campus - Main - 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	6	No	Main Campus - Hallway flooring, lighting replacement, wall refinishing	\$ 250,000.00	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, which creates a tripping hazard.	7471
2-Critical	X	7	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 new 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	8	No	Main Campus - Meat Services Sales area floor	\$ 20,000.00		Meat Services - Currently the tile floor in the sales area has lost its bond to the concrete floor and has created a void underneath the finished floor. The tile floor needs to be removed and replaced.	7471
2-Critical	X	9	No	West Campus - Replace EPDM Single-ply Membrane	\$ 950,000.00	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 repairs. Therefore, based on the typical EUL of twenty years and condition, we expect replacement to be necessary. Please note: the roof has been in place longer than its rated recommended life expectancy.	10004
2-Critical	X	10		Main Campus - Replace BUR System With Gravel Ballast that is on the south end of the building	\$ 2,000,000.00	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 and 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

2-Critical	X	11		Main Campus - Glazed Skylights (reseal, replace with Obscure glass or remove)	\$	40,000.00	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 has been multiple issues with these skylights. Replacement or removal will improve the energy efficiency, functionality, and appearance.	7471	
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	
<b>Total Amount Requested for FY 21</b>					<b>\$</b>	<b>5,640,000.00</b>				
Priority Classification 1 Life Safety 2 Critical 3 Necessary 4 Programmatic										