BARTLETT YANCEY HIGH SCHOOL FACILITIES STUDY Summary of Probable Construction Costs – March 2018

A. New Administration, Classroom and Science Lab Addition

Description	Quantity	Unit	Unit Cost	Total Cost
• Demolition Hall 1, 2 and 3 (Inc. Asbestos Removal)	Lump Sum			\$250,000
 New Two (2) Story Building Staff Parking and Parent Drop Off Improve Road from Vocational Building to New Addition Digital Marquee 	118,561	SF	200	\$23,712,200
 Enclosed Corridors Existing Dining to New Building New Building to Vocational Vocational to Vocational Addition Vocational Addition to East Wing 	6,194	SF	125	\$774,250
 Canopies Bus Parking to New Gym East Wing to Civic Center 	5,600	SF	50	\$280,000
 Temporary Used Mobile Units for Construction Phasing (12 month lease) 2 – 12 classroom modular units and 1 – 8 classroom modular unit 	Lump Sum			\$802,720
	Total Construction Costs			\$25,819,170
 Related Project Costs Construction Contingency A/E Fees Geotechnical, Construction Testing and Special Inspections Surveying Utilities (Electrical Service, Water, Sewer) 				
	1.1.1	Total Project Costs Part A		

B. Renovations and Site Improvements

Des	scription	Quantity	Unit	Unit Cost	Total Cost	
•	 Existing Kitchen/Dining Area Art, HE, Dance, Health Classrooms General Storage, Book Storage, etc. 	8,172	SF	125	\$1,021,500	
•	Alternative Education • Classroom/Toilet Addition	Lump Sum		\$190,000		
•	Athletic Facilities					
	 Concessions, Restrooms, Locker Rooms 	7,000	SF	175	\$1,225,000	
	 Home Bleachers and Press Box (See Note 1 Below) 	Lump Sum			\$320,000	
	 8 Lane Track (See Note 1 Below) Paving, Surface and Lane Markings 	Lump Sum			\$250,000	
	 Relocate Softball Field 	Lump Sum			\$50,000	
•	Miscellaneous					
	 Chain Link Fencing and Gates 	3,500	LF	24	\$84,000	
	 Decorative Fencing and Gates 	500	LF	40	\$20,000	
	Drive Gate	1	EA	5,000	\$5,000	
	o Dumpster Pad	Lump Sum		\$2,500		
	 Paved Walkway to PCC 	266	SY	35	\$9,310	
			Total Constru	uction Costs	\$3,177,310	
•	Related Project Costs O Construction Contingency O A/E Fees (Includes A/E Fees for Part C Alternates)			\$913,585		
		Total Project Costs Part B			\$4,090,895	
	Total Project Costs Parts A and B					



C. Alternates

Description	Quantity	Unit	Unit Cost	Total Cost
 Gymnasium (Page Gym) Expand Lobby into Senior Dining Generator 		Lump Sum		
Old Gymnasium Gym, Lobby, Wrestling Practice, Storage		\$695,785		
Vocational Building		\$482,941		
Vocational Addition	Lump Sum			\$97,760
East Wing	Lump Sum			\$1,066,500
Civic Center	Lump Sum			\$1,609,725
Athletic Facilities Storage Weightlifting	5,000	SF	150	\$750,000
 Expand Bus Parking Lot 	1,500	SY	35	\$52,500
		Total Construction Costs		\$6,192,688
Related Project Costs Original Construction Contingency				\$491,914
	Total Project Costs Part C			\$6,684,602

Note 1: Home bleachers and press box are replaced if lanes are added to the track.

D. Cost Estimate Information

- 1. Inflation: Add 4% per year to construction costs for inflation after January 2019.
- 2. Renovations costs include the following:
 - Page Gymnasium
 - Replace: bleachers, acoustical tile ceilings, light fixtures, HVAC equipment and controls, gym vinyl backed insulation, exterior EIFS, trophy cases.
 - Recoat metal roof and expand lobby into senior dining area.
 - FA and security improvements (access control, CCTV, intrusion detection, intercom).
 - Generator to serve gym, kitchen and dining.
 - **Old Gymnasium**
 - Replace: gym windows, electrical panels and wiring.
 - Renovate locker room area
 - New HVAC system and controls
 - FA and security improvements (access control, CCTV, intrusion detection, intercom).
 - Existing Kitchen/Dining Area
 - Complete interior demolition and renovation to accommodate home economics, art, dance, 2 health classrooms.
 - New HVAC system and controls.
 - FA and security improvements (access control, CCTV, intrusion detection, intercom).
 - Vocational Building
 - Replace: windows, acoustical tile ceilings in classrooms and corridors, light fixtures, HVAC equipment and controls
 - **Renovate toilets**
 - Install Fritz tile in main corridor
 - FA and security improvements (access control, CCTV, intrusion detection, intercom).
 - Vocational Addition
 - New HVAC controls only
 - FA and security improvements (access control, CCTV, intrusion detection, intercom).
 - East Wing
 - Replace: windows, replace flat roofs, acoustical tile ceilings, light fixtures, HVAC equipment and controls.
 - Renovate toilets.
 - Demo mobile storage unit.
 - FA and security improvements (access control, CCTV, intrusion detection, intercom).



- Civic Center
 - Replace: bleacher type seats, roof, acoustical tile ceilings, light fixtures, windows, HVAC equipment and controls
 - Band Room: clean/grind terrazzo floor, add acoustical wall and ceiling panels, add instrument storage cabinets
 - FA and security improvements (access control, CCTV, intrusion detection, intercom).
- 3. Mechanical System Description and Estimated Costs For Renovated Facilities
 - Vocational Building
 - Classrooms: approximately 7,000 SF

The existing mechanical systems consist of multiple Dx split systems with hot water heating coils. These systems shall be replaced with in kind equipment. New controls shall be added to this facility. Estimated Cost \$15/SF.

- Shops: approximately 10,035 SF

The existing mechanical systems consist of hot water fan coils and cabinet heaters to provide heating only to this area. This area is currently not cooled. There are some ductless mini splits being utilized to condition office spaces within the shop area. These systems shall be replaced with in kind equipment. New controls shall be added to this facility. Estimated Cost \$10/SF.

Vocational Addition: 7,728 SF

The existing mechanical systems consist of multiple Dx split systems heat pumps, gas heaters and ductless mini-split system. These systems are newer and are not to be replaced at this time. New controls shall be added to this facility. Estimated Cost \$10/SF

East Wing: 21,620 SF

The existing mechanical systems consist of multiple constant volume Dx packaged roof top units with hot water heating coils and multiple Dx split systems with hot water heating coils. These systems shall be replaced with in kind equipment. There is also an existing cast iron boiler and pumps that serve this building along with the vocational building. These boilers shall replace with high efficiency condensing type boilers and the pumps shall be replaced with in kind equipment. Zoning shall be reviewed at time of design, we anticipate this to require two more roof top units to be added. New controls shall be added to this facility. Estimated Cost \$25/SF.

Civic Center: 21,770 SF

The existing mechanical systems consist of multiple constant volume Dx packaged roof top heat pump units with electric heat and two constant volume modular indoor air handling units with remote Dx condensers and electric heat. These systems shall be replaced with in kind equipment. New controls shall be added to this facility. Estimated Cost \$20/SF

Old Gym/Locker: 11,370 SF

The existing mechanical systems consist of Hot Water Cabinet Unit Heaters. This area is currently not cooled. The boiler serving this building is located in Hall 1 which is being demolished. New constant volume Dx packaged ground mounted heat pump units with electric heat shall be added to heat and cool the gym. New constant volume DX split systems units with electric heat shall be added to heat and cool the weight training and lobby areas and two modular indoor air handling units with remote condensers and electric heat. New controls shall be added to this facility. Estimated Cost \$22/SF

Kitchen/Dining: 8,172 SF

The existing mechanical systems consist of two ground mounted Dx packaged units with gas heat. A new variable volume Dx packaged ground mounted heat pump units shall be added to heat and cool the renovated spaces. New variable volume terminal boxes with electric reheat shall be utilized for zoning of the renovated spaces. This building is getting completely renovated and all new ductwork will be required. New controls shall be added to this facility. Estimated Cost \$30/SF

Page Gym: 23,954 SF

Dewberry

The existing mechanical systems consist of two constant volume modular indoor air handling units with remote Dx condensers and hot water heating coils to provide the heating and cooling to the gym. The surrounding support spaces are only heated by cabinet unit heaters and fan coil units with hot water. These systems shall be replaced with in kind equipment. A new constant volume Dx packaged ground mounted unit with hot water coils shall be added to heat and cool the new lobby addition. New controls shall be added to this facility. Estimated Cost \$25/SF.

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4. Security Improvements

Dewberry

Providing a secure environmental for students at Bartlett Yancey High School was a primary emphasis of the study. The final design incorporates the following:

- Creates a secure public entry to the school.
- Connects the individual buildings with enclosed corridors.
- Incorporates electronic technologies such as closed circuit television (CCTV), access control, alarm notification and unified communications.
- Decorative fencing in select areas.
- Drive gates

Access control and alarm systems help to deter events from occurring but if they do, they provide audible and visual notification to the administrator. CCTV helps to quickly identify the location and severity of the situation. Unified communications allow the administrator to effectively communicate visually and audibly with emergency responders, students, staff and parents.

5. Concessions, restrooms, locker rooms (50' x 140')

Metal building to house concessions/storage, men/women restrooms sized per building code based on number of bleacher seats, separate JV and varsity locker rooms that share restrooms/showers, office space for two (2) coaches and a Mechanical/Engineer Room.