Master Plan Final Report

The University of Montana Student Success Campaign

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Executive Summary

Project Summary Project Budget Recommendations Project Timeline Campus Map

Project Summary

The University of Montana Student Success Campaign will provide funding for six distinct projects on the university campus:

- A new Art Annex Building
- A Learning Commons at the Mansfield Library
- An Academic Center for Athletes at the Adams Center
- A new Weight Training facility and Coaches Locker Rooms at the Adams Center
- An expanded and remodeled Locker Room Facility for Football, Basketball, Olympics, and Officials at the Adams Center

A&E Architects was selected to provide baseline planning and analysis for five of these projects; the sixth project - Stadium Lighting - is documented in a separate proposal from the lighting vendor.

This report is divided into six components – an Executive Summary and one component for each project. Each component contains similar information:

- 1. Project Summary
- 2. Project Program
- 3. Drawings
- 4. Project Budget Recommendations
- 5. Photos of Existing Conditions

Prior to the work of this planning report, each of these projects had been developed to various concept levels by others. A&E was tasked with gathering this early information, re-engaging the stakeholders to review the design and programmatic assumptions, and then developing each concept to a consistent level of evaluation criteria. The ultimate goal was to develop Project Budget Recommendations for each project, based upon the design goals balanced a careful review and analysis of existing site and building conditions, building systems, constructability issues, and project timelines.

It was understood that the design concepts would be further developed in greater detail by subsequent design teams after the projects were approved and funded.

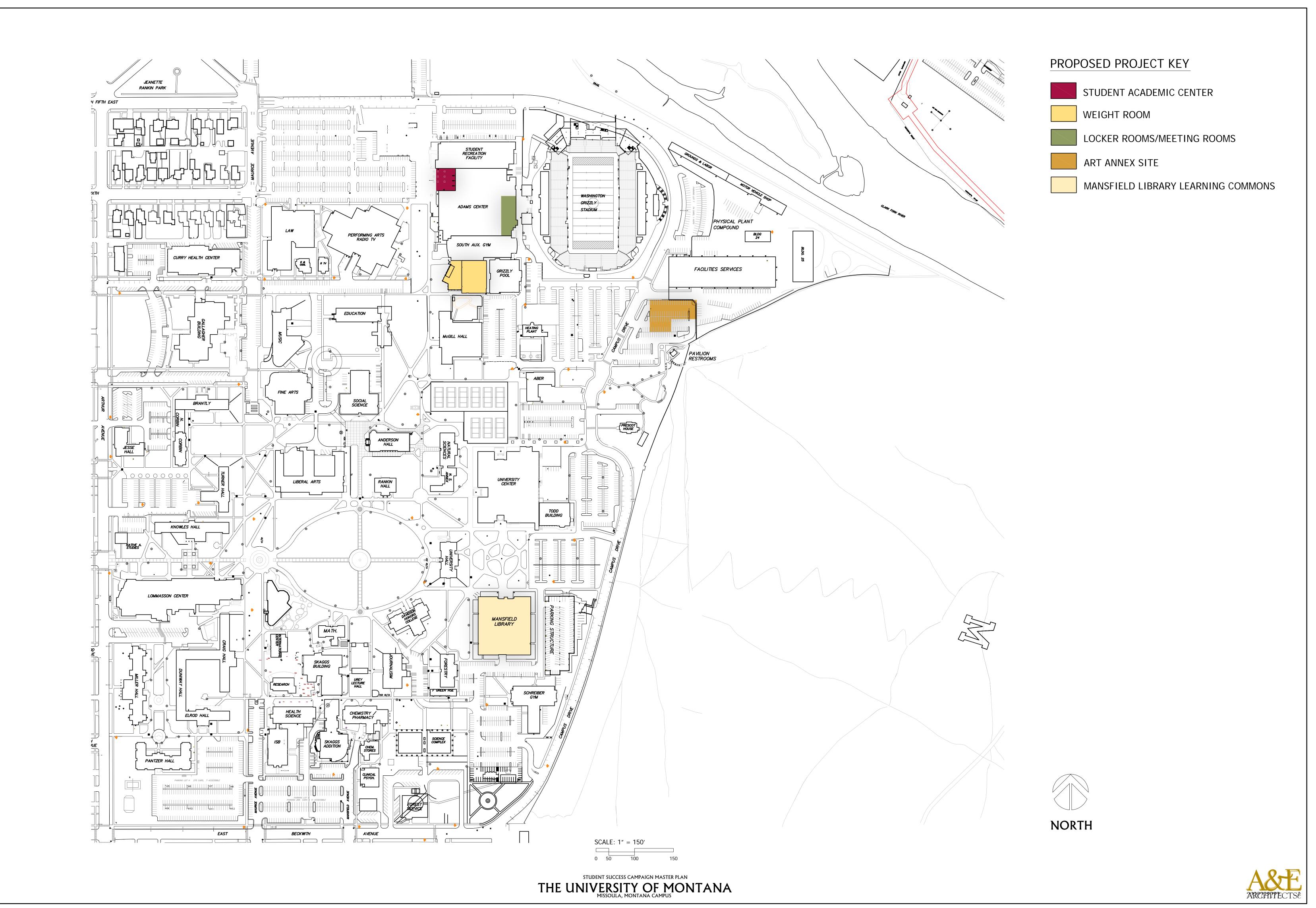
The initial funding goal for the campaign was set at \$12.7M with each project being allotted a portion of that total. The \$12.7M budget was not an absolute, but rather a guideline to impose financial controls on the overall program in keeping with other campus priorities.

A&E has developed a timeline to illustrate the design and construction sequence necessary to accomplish the work. Two of the projects – the Learning Commons and the Academic Center for Athletes – can be developed as soon as funds become available. The other three projects – Art Annex, Weight Training, and Locker Expansion - have to be executed sequentially. A new Art Annex must be completed and the Art Department moved before the current Art Annex space can be remodeled for a new Weight Training Center. Similarly, the Weight Training Center must be completed and occupied before the current weight training space can be remodeled into expanded Locker Rooms.

This report serves to document the assumptions, the evaluation criteria, and the conclusions made to support the Student Success Campaign at The University of Montana.

BUDGET RECOMMENDATIONS

ORIGINAL	NOVEMBER	JANUARY
3,000,000	5,824,000	5,153,741
1,700,000	6,728,995	3,163,902
3,000,000	2,343,822	2,275,303
2,000,000	1,716,000	1,925,810
2,000,000	2,646,150	2,096,567
1,000,000	1,000,000	1,000,000
12 700 000	20 258 967	15,615,323
	3,000,000 1,700,000 3,000,000 2,000,000 2,000,000	3,000,000 5,824,000 1,700,000 6,728,995 3,000,000 2,343,822 2,000,000 1,716,000 2,000,000 2,646,150 1,000,000 1,000,000



UM SSC MASTERPLAN															T		Τ				Т
PROJECT TIMELINE		+														+					+
2/16/2012 - REVISED															+		+				
2/10/2012 NEVISES		+														+					+
PROJECT/PHASE	Q4 2011	Q1 2012	Q2 2012	Q3 2012	Q4 2012	Q1 2013	Q2 2013	Q3 2013	Q4 2013	Q1 2014	Q2 2014	Q3 2014	Q4 2014	Q1 2015	Q2 2015	Q3 2015	Q4 2015	Q1 2016	Q2 2016	Q3 2016	Q4 2016
MASTERPLANNING																					
APPROVALS - UM, REGENTS																					
LIBRARY LEARNING COMMONS																					
REGENTS APPROVAL																					
A/E SELECTION																					
DESIGN																					
BIDDING/CONTRACTS																					
CONSTRUCTION																					
ATHLETICS ACADEMIC CENTER																					-
REGENTS APPROVAL																					-
A/E SELECTION																					
DESIGN																					-
BIDDING/CONTRACTS																					-
CONSTRUCTION									T								-				-
LECICLATIVE ADDDOVAL																					
LEGISLATIVE APPROVAL																					
ART ANNEX																					+
A/E SELECTION																					+
DESIGN																					+
BIDDING/CONTRACTS																					
CONSTRUCTION																					
MOVING																					
																					+
ATHLETICS WEIGHT TRAINING																					
A/E SELECTION/DESIGN																					
DESIGN																	1			1	<u> </u>
BIDDING/CONTRACTS																					+
CONSTRUCTION		1										1					1			1	
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ATHLETICS LOCKER ROOMS																					
A/E SELECTION																	1				
DESIGN																					
BIDDING/CONTRACTS																					
CONSTRUCTION																				·	

The University of Montana
MISSOULA



Art Annex

Project Statement
Project Program
Drawings
Project Budget
Photos

Project Statement

Art Annex

The new Art Annex building will consolidate four programs within the Art Department – Sculpture, Ceramics, Photography, and Graduate Studies – into a new complex designed for their specific needs. Proposed to be located in the northeast corner of campus along Campus Drive, the new building will be positioned near the rear of the parking lot at the base of the M trail, adjacent to the Pavilion Restrooms.

With a total area of approximately 25,000 sf, the building will have two floors to minimize the impact on the site and the subsequent loss of parking. The two floors will also provide an opportunity to separate non-compatible uses, such as "clean spaces" and "dirty spaces" and acoustical separation between classrooms and work areas. Consideration will be given to extending a portion of the building beyond the existing retaining wall separating the upper parking lot from the Facilities parking lot below.

The building construction type, materials, and finishes will be more industrial in nature than a typical campus building to accommodate the uses within while maintaining the required code separations and fire resistivity. The mechanical/electrical systems will be more complex given that they will serve a variety of occupancies and industrial processes.

A significant component of the Art Annex will be the Courtyard, a 6,000 sf multi-purpose outdoor processing and storage area. This space needs to be accessible for large truck deliveries and immediately adjacent to the Sculpture and Ceramics work areas. Also because of the messy nature of this space and the exhausts from kilns and forges, care has been taken to locate this courtyard so that it is partially hidden by the building and adjacent to the Facilities parking lot.

Mechanical:

- Heating will be provided via central plant steam. A utility tunnel exists in campus drive; steam will be
 routed to the building and converted to hot water via a shell and tube heat exchanger. Hot water will be
 distributed throughout the building by base mounted pumps.
- Cooling will be provided via ground water. One injection well and one withdrawal well will be provided at
 a location to be determined. Proximity to the base of Mt. Sentinel should be considered in regards to
 ground water depth, location to existing wells should also be considered. Ground water will be routed
 into the building and then through a plate and frame heat exchanger.
- Heating hydronic and chilled water piping will be treated with a percentage of propylene glycol to prevent freezing of piping and coils.
- New air handler will be provided to provide ventilation and space temperature.
- Make up air units will be provided to make up individual exhaust loads from sculpture and ceramics.
- Temperature Control system will be integrated into Campus front end system. All control points will be remotely adjustable through DDC system.
- Natural gas service will be required to the building to serve kilns.
- Code required ventilation will be provided to the kiln and art areas.
- Domestic hot water will be provided by an indirect hot water maker off the heating loop. For steam shut down periods, domestic hot water maker will be provided with electric back-up.
- Domestic cold water service will be provided to the building.
- Fire protection system will be designed to comply with NFPA 13

Electrical:

- Electrical service will come from the Owner's existing 12,470 Volt distribution system. Proposed building site is directly over existing utility tunnel containing existing primary cable. A new medium voltage switch and transformer will be provided to serve the building. Transformer size will likely be 300 kVA. The service will likely be 800 Amps at 480/277 Volts.
- Service size includes provisions for equipment such as kilns.
- Service size assumes ground water cooling and does not account for mechanical cooling.

- The main distribution panel will be located in the main electrical room. This panel will serve 480/277
 Volt panels in the electrical closets located on each floor. Each electrical room will have a transformer
 and at least one 208/120 Volt panel for receptacle loads.
- A diesel fueled generator set will be installed to provide emergency power for egress lighting, elevator machine and other emergency systems such as fire alarm and area or refuge.
- Careful consideration will be required to select the proper lighting for the gallery and some of the studio spaces such as photography. Emphasis in these spaces will be on proper color rendition and lighting angles.
- Most spaces will use cost effective, high efficiency lighting fixtures with fluorescent lamps. Halogen
 lamps could be used in gallery and some studio spaces such as photography. LED fixtures will be
 considered where appropriate. Use of high intensity discharge lamps will be avoided unless required.
 Exterior lighting fixtures will use cold weather ballasts or LED source. All fixture selections will be
 coordinated with Owner for lamp types and compatibility with maintenance requirements and Campus
 Standards.
- Lighting Controls -
 - A lighting control panel (LCP) with time clock will be included for all common areas and exterior lighting.
 - Fixtures could be controlled by time clock, occupancy sensor, daylight sensor or some combination of control devices.
 - Occupancy sensors will likely be provided in most areas for lighting control.

Special Systems:

- Telecommunications -
 - Communications systems will be provided in accordance with the established University of Montana-Missoula campus standards.
 - Optical fiber for data and multi-pair copper cable for voice will be brought underground to the building via the existing utility tunnel.
 - Equipment room fittings such as racks with patch panels will be provided in the communications closet on each floor.
 - Active equipment would be by Owner.
 - Category 6 horizontal cabling will be provided from all communications outlets back to rack mounted patch panels in the communications closets.
 - Two hardwired drops per workstation.
 - Wireless access points provided throughout.
 - Structured cabling for voice and data.
 - Communications cabling will be installed in raceway in the walls and in cable tray above the corridor ceilings. Cable management such as hooks and loops will be provided for horizontal cable where required.
 - o Data backbone riser cable between communication rooms will be provided via optical fiber
 - Voice backbone riser cable between communication rooms will be provided via multi-pair copper.
 - Spare pathways will be provided between the communications closets on each floor for future backbone cabling.
- A fire alarm system with full detection, initiation and notification will be provided. Fire alarm control panel
 will be located in the electrical room with a remote annunciator at the main entry. Notifier would be the
 basis-of-design manufacturer based on existing systems at the campus.
- Need for an access control system would be evaluated with the Owner.

IT Infrastructure:

Includes IT infrastructure required to connect the new building to the campus voice and data networks and to serve wired and wireless users within the building. The connection to the campus voice network is assumed to be 1000 feet of 50-pair cable connecting to existing services in McGill Hall. The connection to the campus data network is assumed to be 1000 feet of single mode fiber optic cable, also terminating at McGill Hall. The estimate includes 60 Category 6 cables with two terminating in each work area plus 10 to

connect to the 10 wireless access points required for complete building coverage. Two 48-port network switches are included to terminate the 60 new Category 6 cables. Finally, this estimate assumes that four rooms will require either a 42" digital display or projector at a budget of \$1,200 each.

PROGRAM OF SPACES ART ANNEX

SPACE	EXISTING	PROPOSED	TOTAL
1ST FLOOR			
CERAMICS CLASSROOM STUDIO GLAZE ROOM CLAY MIXING ROOM SPRAY BOOTH INDOOR KILN ROOM OFFICES - 2 BFA UNDERGRAD SPACES	4,940 SOUTH SIDE	5,355 2,800 300 225 200 1,000 330 500	5,355
SCULPTURE CLASSROOM STUDIO CASTING OFFICE - 1	4,560 NORTH SIDE	3,165 2,700 300 165	3,165
SHARED SPACES GALLERY WOOD SHOP PLASTER ROOM TOOL ROOM TECHNICIAN OFFICE	2,660 MIDDLE	3,390 1,000 1,400 750 240 165	3,390
BUILDING SUPPORT RESTROOMS STAIRWELLS ELEVATOR, MACHINE ROOM MECHANICAL, ELECTRICAL JANITOR, BUILDING STORAGE CIRCULATION	0	2,890 480 360 200 500 150 1,200	2,890
TOTAL - FIRST FLOOR			14,800
2ND FLOOR			
PHOTOGRAPHY DIGITAL LAB ANALOG LAB EQUIPMENT CAGE LIGHTING STUDIO INSTRUCTIONAL SPACE OFFICES - 2		2,730 500 500 300 650 450 330	2,730
GRADUATE STUDENT SPACES 7 - CERAMICS 3 - SCULPTURE 3 - PHOTOGRAPHY 8 - PAINTING, DRAWING 2 OFFICES - MA/MFA		4,080 1,260 540 540 1,440 300	4,080

SHARED SPACES	1,000	1,000
FOUNDATIONS CLASSROOM	1,000	
BUILDING SUPPORT	2,090	2,090
RESTROOMS	480	
STAIRWELLS	360	
ELEVATOR	100	
MECHANICAL, ELECTRICAL	150	
JANITOR, BUILDING STORAGE	100	
CIRCULATION	900	
TOTAL - SECOND FLOOR TOTAL - BOTH FLOORS		9,900 24,700
OUTDOOR		,
COURTYARD	6,000	6,000

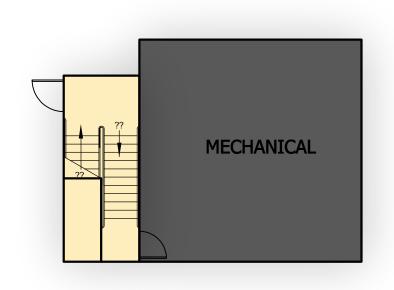








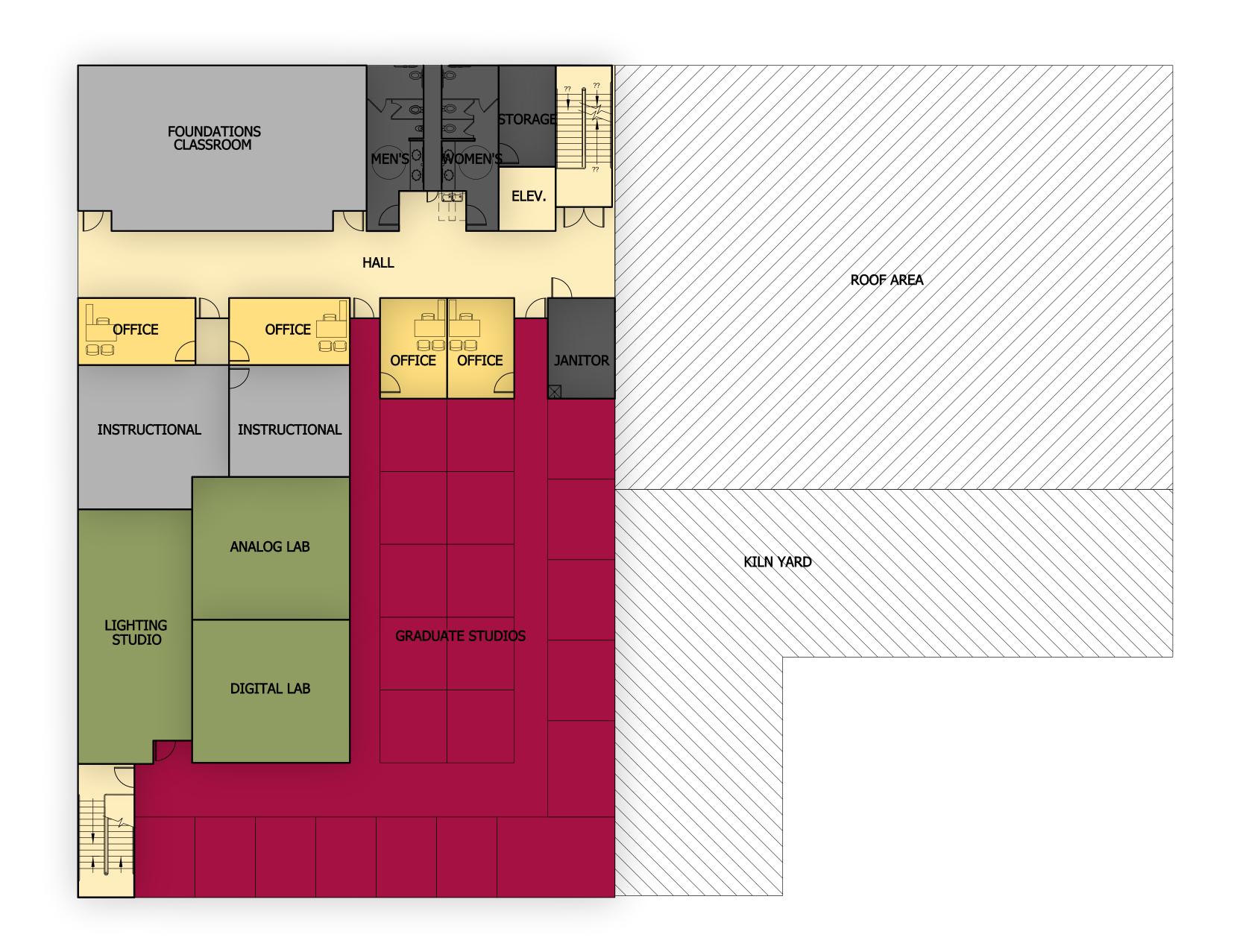




ART ANNEX - BASEMENT FLOOR - PROPOSED LAYOUT









9,920 SQ FT
ART ANNEX - SECOND FLOOR - PROPOSED LAYOUT







ART ANNEX RENDERING





ART ANNEX RENDERING





ART ANNEX RENDERING



PRELIMINARY BUDGET

ART ANNEX	LOWER LEVEL	15,043.00 SF
THE UNIVERSITY OF MONTANA	UPPER LEVEL	9,920.00 SF
	TOTAL NEW CONST	24,963.00 SF

ITEM	UNIT	QUANT	COST/SF	TOTAL
DEMOLITION REMOVE CHAIN LINK FENCING REMOVE LIGHT POLES SAWCUT ASPHALT ASPHALT REMOVAL EXCAVATION SAWCUT CONCRETE FOUNDATION WALL DEMO RETAINING WALL DEMO FOOTING MISC DEMOLITION	LF EA LF SF CY LF LF LF	250 2 660 27,000 1,630 12 226 226	2.00 500.00 1.00 0.25 15.00 20.00 20.00 10.00 2,500.00	500 1,000 660 6,750 24,450 240 4,520 2,260 2,500
TOTAL DEMOLITION SITE WORK				42,880
BACKFILL/COMPACTION	CY	1,400	20.00	28,000
CONCRETE SIDEWALKS	SF	2,000	5.00	10,000
ASPHALT PATCHING	SF	5,000	3.50	17,500
NEW CONSTRUCTION CONCRETE FOOTINGS	LS	1	22,000.00	22,000
CONCRETE COLUMN FOOTINGS/PIERS CONCRETE FOUNDATION WALLS 4" CONCRETE SLAB ON GRADE	LS	1	8,000.00	8,000
	LS	1	38,000.00	38,000
	SF	14,800	3.52	52,096
5.5" CONCRETE SLAB ON 2" METAL DECK	SF	9,900	,	54,054
KILN AREA SLAB ON GRADE	SF	2,640		13,200
SECOND FLOOR BEAMS	LS	1		95,000
SECOND FLOOR DECKING ROOF BEAMS ROOF JOISTS ROOF DECKING	LS LS LS LS	1 1 1	38,000.00 44,000.00 67,000.00 32,000.00	38,000 44,000 67,000 32,000
STEEL COLUMNS LATERAL BRACING EXTERIOR STUDS WALLS	LS	1	18,000.00	18,000
	LS	1	40,000.00	40,000
	LS	1	50,000.00	50,000
EXTERIOR GYP SHEATHING EXTERIOR CLADDING SYSTEM	LS	1	22,000.00	22,000
	SF	13,200	15.00	198,000
ALUM/GLASS STOREFRONT SYSTEM ALUM/GLASS DOORS/HRDWR ALUM/GLASS WINDOW	SF PR SF	4,000	35.00 3,000.00 35.00	6,000 140,000
EXPANSION JOINT - ROOF EXPANSION JOINT - WALL ROOF INSULATION	LF	62	15.00	930
	LF	50	20.00	1,000
	SF	15,000	7.50	112,500
ROOF MEMBRANE REGLETS/COUNTERFLASHING CAP FLASHING	SF	15,000	7.50	112,500
	LF	65	10.00	650
	LF	640	20.00	12,800
INTERIOR 8"CMU WALLS 6" INTERIOR FRAME WALLS/INS/GB/TAPE 4" INTERIOR PARTITIONS/INS/GB/TAPE	SF SF	5,424 5,306 10,638	10.00 7.00 5.00	54,240 37,142 53,190
PERIMETER WALL /INS/GB/TAPE	SF	17,000	2.50	42,500
ALUM/GLASS STOREFRONT/DOORS/HDWR	SF	830	50.00	41,500

SINGLE 3X7 HM DOOR/HM FRAME DOUBLE 3X7 HM DOOR/HM FRAME DOOR HARDWARE/DOOR LEAF STEEL/CONC STAIR/LANDING ASSEMBLY STEEL GUARDRAIL - RISER MTD STEEL HANDRAIL - WALL MTD POLISHED CONCRETE 2X2 CARPET TILE CERAMIC WALL TILE 2X2 ACOUSTIC CEILING GYP BD CEILING - NEW/TAPE INTERIOR PAINTING - CMU WALLS INTERIOR PAINTING - GYP BD WALLS INTERIOR PAINTING - BOYFALL ON STRUCT TOILET PARTITIONS URINAL SCREENS TOILET ACCESSORIES ELEVATOR AND EQUIPMENT VISUAL DISPLAY SURFACES AV EQUIPMENT IT ALLOWANCE EQUIPMENT MOVING/SET-UP ALLOWANCE MISCELLANEOUS TOTAL REMODEL	EA EA EA LS LF LF SF SF SF SF SF SF EA LS LS LS LS LS LS LS	34 15 23 2 80 80 25,000 5,500 10,848 48,888 18,000 10 2 4 1 1 1 1	1,250.00 1,750.00 500.00 15,000.00 60.00 20.00 1.00 5.00 8.00 4.00 6.00 1.30 0.80 1.30 0.60 700.00 300.00 1,000.00 2,500.00 5,000.00 50,000.00 20,000.00	42,500 26,250 11,500 30,000 4,800 1,600 25,000 0 22,000 0 14,102 39,110 0 10,800 7,000 600 4,000 60,000 2,500 2,500 5,000 50,000 1,785,565	
TOTAL NEWIODEL				1,705,505	
TOTAL ARCHITECTURAL HVAC	SF	24,700	15.00	1,828,445 370,500	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL	SF	24,700	9.00	1,828,445 370,500 222,300	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL PLUMBING	SF SF	24,700 24,700	9.00 5.00	1,828,445 370,500 222,300 123,500	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL PLUMBING GROUND WATER	SF SF SF	24,700 24,700 24,700	9.00 5.00 6.50	1,828,445 370,500 222,300 123,500 160,550	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS	SF SF SF SF	24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00	1,828,445 370,500 222,300 123,500 160,550 98,800	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS TEST & BALANCE	SF SF SF SF	24,700 24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS	SF SF SF SF	24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50 3.50	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050 86,450	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS TEST & BALANCE FIRE PROTECTION	SF SF SF SF SF	24,700 24,700 24,700 24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050 86,450 395,200	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS TEST & BALANCE FIRE PROTECTION ELECTRICAL	SF SF SF SF SF SF	24,700 24,700 24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50 3.50	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050 86,450	73.25
TOTAL ARCHITECTURAL HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS TEST & BALANCE FIRE PROTECTION ELECTRICAL SPECIAL SYSTEMS	SF SF SF SF SF SF	24,700 24,700 24,700 24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50 3.50	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050 86,450 395,200 49,400	73.25 64.25
HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS TEST & BALANCE FIRE PROTECTION ELECTRICAL SPECIAL SYSTEMS IT INFRASTRUCTURE TOTAL M/E SUBTOTAL GENERAL CONDITIONS SUBTOTAL	SF SF SF SF SF SF	24,700 24,700 24,700 24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50 3.50 16.00 2.00	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050 86,450 395,200 49,400 60,200 1,603,950 3,432,395 171,620 3,604,015	
HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS TEST & BALANCE FIRE PROTECTION ELECTRICAL SPECIAL SYSTEMS IT INFRASTRUCTURE TOTAL M/E SUBTOTAL GENERAL CONDITIONS SUBTOTAL GENERAL CONTRACTOR OH&P	SF SF SF SF SF SF	24,700 24,700 24,700 24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50 3.50 16.00 2.00	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050 86,450 395,200 49,400 60,200 1,603,950 3,432,395 171,620 3,604,015 360,401	64.25
HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS TEST & BALANCE FIRE PROTECTION ELECTRICAL SPECIAL SYSTEMS IT INFRASTRUCTURE TOTAL M/E SUBTOTAL GENERAL CONDITIONS SUBTOTAL GENERAL CONTRACTOR OH&P TOTAL CONSTRUCTION COST	SF SF SF SF SF SF	24,700 24,700 24,700 24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50 3.50 16.00 2.00	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050 86,450 395,200 49,400 60,200 1,603,950 3,432,395 171,620 3,604,015 360,401 3,964,416	
HVAC MECHANICAL PLUMBING GROUND WATER CONTROLS TEST & BALANCE FIRE PROTECTION ELECTRICAL SPECIAL SYSTEMS IT INFRASTRUCTURE TOTAL M/E SUBTOTAL GENERAL CONDITIONS SUBTOTAL GENERAL CONTRACTOR OH&P	SF SF SF SF SF SF	24,700 24,700 24,700 24,700 24,700 24,700 24,700	9.00 5.00 6.50 4.00 1.50 3.50 16.00 2.00	1,828,445 370,500 222,300 123,500 160,550 98,800 37,050 86,450 395,200 49,400 60,200 1,603,950 3,432,395 171,620 3,604,015 360,401	64.25



Art Annex site from Campus Drive



Entrance to Facilities south parking lot with Art Annex site to the right



Art Annex site looking southwest



Art Annex site looking south



Art Annex site looking north



Art Annex site looking northeast



Art Annex site looking north





Learning Commons at the Mansfield Library

Project Statement
Project Program
Drawings
Project Budget
Photos

Project Statement

Learning Commons – Mansfield Library

The Learning Commons project will remodel and upgrade portions of the main level (level three) of the Mansfield Library into a technology-enhanced collaborative space for the University community. The project will involve an extensive remodel and reconfiguration of approximately 28,000 sf of existing floor area with minor remodeling of the remaining 19,000 to accommodate mechanical and electrical upgrades. The remodeling will include the removal of the existing precast wall panels at the northwest corner and replacing them with glass storefront system for greater transparency and natural lighting.

The interior will feature a variety of study and collaboration environments as well as a coffee shop and support staff offices and work area – all fitted with wired and wireless access, ample power points, and other learning-based technology amenities. Interior finishes and furnishings will be new and designed to contemporary standards. Improvements to the existing heating, ventilating, and air conditioning system will be made in the areas impacted by the remodeling. Lighting and power and data distribution will be upgraded throughout the floor.

Mechanical:

- Heating and cooling of the space will be provided by existing HVAC unit with the ductwork being redistributed for new layout. Existing unit is a multizone unit with newly updated controls and a variable speed supply fan.
- Minimal zoning will be provided with electrical reheat coils in sensitive areas.
- Concerns exist about cooling capacity of existing unit with new computer room layout, considerations should be taken for additional cooling.
- Temperature Control system will be integrated into Campus front end system. All control points will be remotely adjustable through DDC system.

Electrical:

- Electrical power will come from the existing building distribution system. At least one new panel and feeder will likely be required to serve mechanical loads.
- Most spaces will use fixtures cost effective, high efficiency lighting fixtures with fluorescent lamps. LED fixtures will be considered where appropriate. Use of incandescent or high intensity discharge lamps will be avoided unless required. All fixture selections will be coordinated with Owner for lamp types and compatibility with maintenance requirements and Campus Standards.
- Lighting Controls
 - A lighting control panel (LCP) with time clock will be included for all common areas.
 - Fixtures could be controlled by time clock, occupancy sensor, daylight sensor or some combination of control devices.
 - Occupancy sensors will likely be provided in many areas for lighting control.

Special Systems:

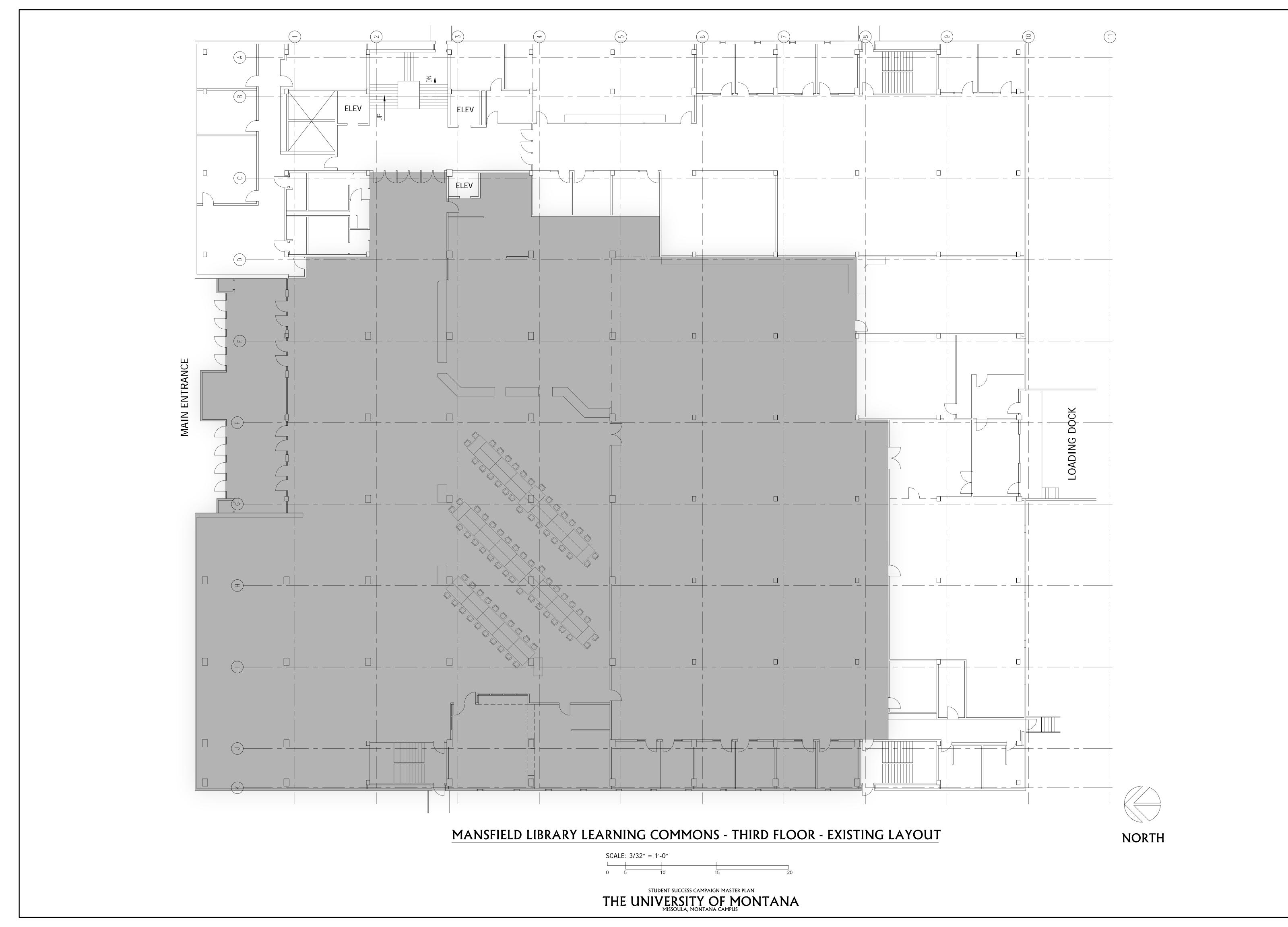
- Telecommunications -
 - All communications systems within the renovation area will be replaced or upgraded.
 - Communications systems will be provided in accordance with the established University of Montana-Missoula campus standards.
 - Additional patch panels would be added to existing communications equipment closets as needed.
 - Category 6 horizontal cabling will be provided from all communications outlets back to rack mounted patch panels in the electrical room.
 - Two hardwired drops per workstation.
 - Wireless access points provided throughout.
 - Structured cabling for voice and data.
 - Communications cabling will be installed in raceway in the walls and in cable management such as hooks and loops above the ceilings and elsewhere.
 - No additional backbone cabling is anticipated.
- Existing fire alarm devices would be reused and new devices incorporated into the existing building fire alarm system as required. Upgrade or replacement of the fire alarm system has not been included in the budget.
- Need for electronic access control would be evaluated with the Owner.

IT Infrastructure:

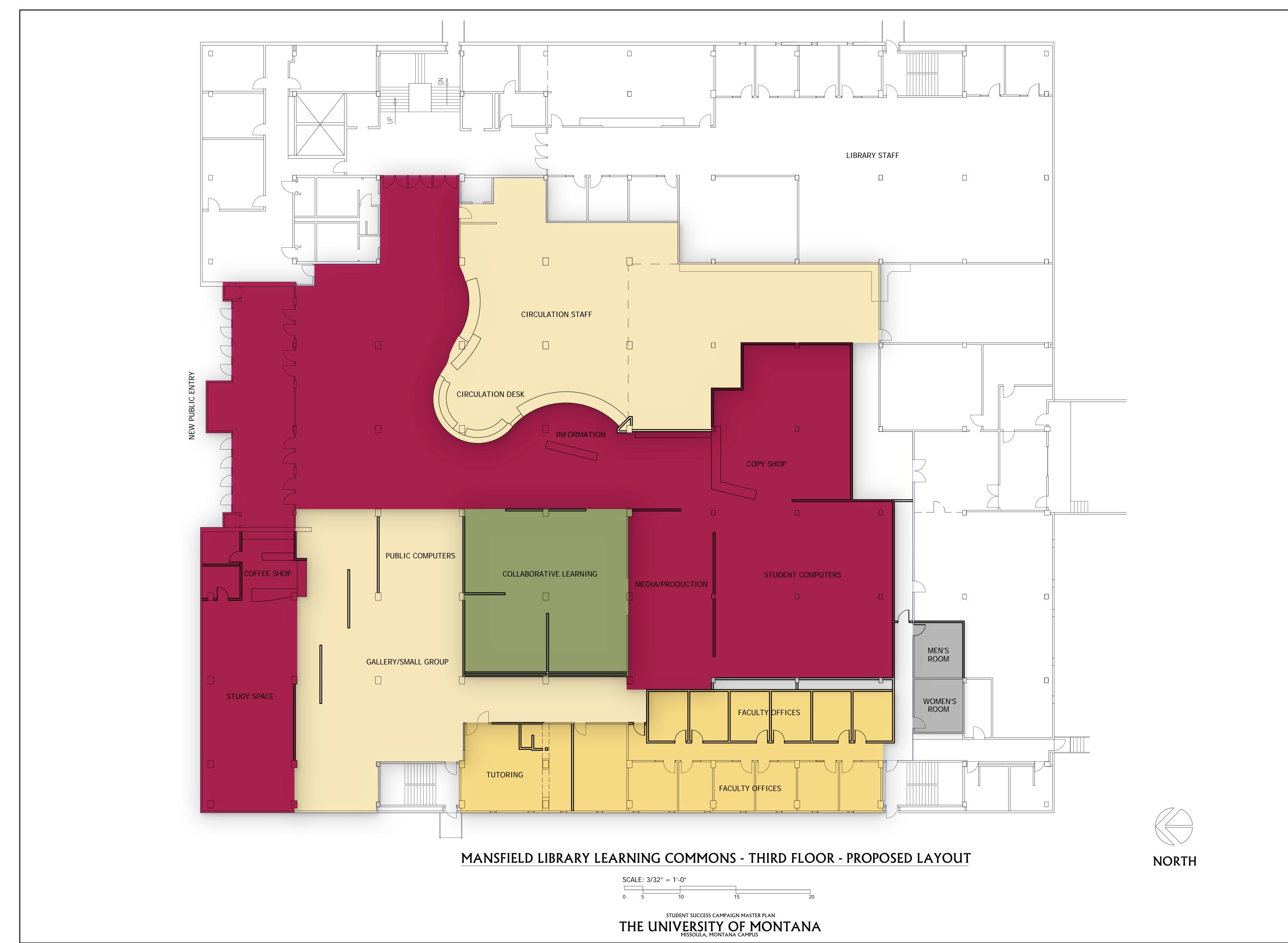
Includes 150 Category 6 cable runs to provide two cables in each work area, single cables to each student work station, and single cables to each wireless access point. This estimate also includes 22 wireless access points to provide wall-to-wall coverage of the Learning Commons, four 48-port network switches to support the wired and wireless connections, and ten 42" digital displays for student presentation and other meeting support. This estimate assumes that the existing connections to the campus voice and data networks are adequate.

PROGRAM OF SPACES MANSFIELD LIBRARY LEARNING COMMONS

SPACE	AREA
ENTRANCE/CIRCULATION	7,300
PUBLIC COMPUTERS	552
CIRCULATION DESK	
INFORMATION AREA	
COFFEE SHOP/SOCIAL STUDY	1,875
GALLERY/SMALL GROUP STUDY	2,800
COLLABORATIVE LEARNING	1,936
MEDIA/PRODUCTION	1,100
COPY SHOP	1,450
STUDENT COMPUTERS	2,300
TUTORING CENTER	1,012
LIBRARY FACULTY OFFICES	2,276
REMODELED RESTROOMS	220
CIRCULATION STAFF	5,000
LIBRARY STAFF WORK SPACE	
TOTAL PROGRAM AREA	27,821









PRELIMINARY BUDGET - ARCHITECTURAL MANSFIELD LIBRARY LEARNING COMMONS THE UNIVERSITY OF MONTANA

REMODELED ARE 28,400 SF

ITEM	UNIT	QUANT	COST/SF	TOTAL	
DEMOLITION					
LAY-IN CEILING	SF	28,000	0.70	19,600	
GYP BD CEILING	SF	400	0.80	320	
SPECIALTY CEILING	SF	0		0	
CARPET	SF	26,450	0.50	13,225	
ENTRY FLOOR MATS	SF	1,150	1.50	1,725	
VCT/SHEET VINYL	SF	800	2.00	1,600	
FRAME WALLS	SF	2,100	1.50	3,150	
FURRING WALLS	SF	1,625	0.80	1,300	
DOORS/FRAMES PER LEAF	EA	8	125.00	1,000	
RELITES/FRAMES	SF	150	4.00	600	
BASE CABINETS/COUNTERTOPS	LF	94	15.00	1,410	
WALL MOUNTED COUNTERTOPS	LF	70	8.00	560	
UPPER CABINETS/COUNTERTOPS	LF	70	8.00	560	
CEILING HUNG BULKHEAD	LF	94	6.00	564	
ROOFING/INSULATION	SF	500	2.00	1,000	
FULL HT PRECAST WALL PANELS	EA	13	1,000.00	13,000	
HALF HT PRECAST WALL PANELS	EA	12	500.00	6,000	
EXTERIOR WINDOW UNITS	EA	12	200.00	2,400	
MISC DEMOLITION	LS	1	4,000.00	4,000	
TOTAL DEMOLITION			,	72,014	
REMODEL					
PERIMETER FRAME WALL/SHEATH AT BASE	LF	125	10.00	1,250	
PERIMETER FRAME WALL/SHEATH AT PARAPET	LF	125	32.00	4,000	
ALUMINUM/GLASS WINDOWALL	SF	2,208	35.00	77,263	
EXTERIOR ALUM TRIM/SUBSTRATE AT BASE	LF	125	25.00	3,125	
EXTERIOR ALUM TRIM/SUBSTRATE AT UPPER WALL		125	25.00	3,125	
REPLACE ROOFING/INSULATION	SF	500	8.00	4,000	
ROOF CANT STRIP	LF	125	1.50	188	
ROOF BASE FLASHING/TIE INTO EXIST ROOF	SF	500	5.00	2,500	
PARAPET CAP FLASHING	LF	125	20.00	2,500	
HORIZONTAL PROJECTING SUN SCREEN	LF	125	1,000.00	125,000	
FRAME WALLS/INS/GB/TAPE	SF	9,600	7.00	67,200	
SINGLE 3X7 DOOR/FRAME	EA	14	1,000.00	14,000	
DOUBLE 3X7 DOOR/FRAME	EA	14	1,750.00	1,750	
DOOR HARDWARE/DOOR	EA	16	800.00	12,800	
CUSTOM BASE CABINET/COUNTERTOP	LF	150	500.00	75,000	
STANDARD BASE CABINET/COUNTER	LF	62	350.00	21,700	
STANDARD BASE CABINET/COUNTER STANDARD UPPER CABINET	LF	62	250.00	15,500	
2X2 CARPET TILES	SF	24,200	5.00	121,000	
PORCELAIN FLOOR TILE	SF		10.00	•	
SHEET VINYL/VCT	SF	2,400		24,000	
RESILIENT BASE - STRAIGHT	SF LF	600 2 500	8.00 3.00	4,800 7,500	
	SF	2,500		7,500	
CERAMIC WALL THE	SF SF	400	10.00	4,000	
CERAMIC WALL TILE	SF SF	1,000	8.00	8,000	
SPECIALTY WALL FINISH		4,000	5.00	20,000	
2X2 ACOUSTIC CEILING	SF	16,400	5.00	82,000	
GYP BD CEILING	SF	2,000	6.00	12,000	

SPECIALTY CEILING TREATMENT GYP BD BULKHEAD - 5' HIGH INTERIOR PAINTING - WALLS INTERIOR PAINTING - GB CEILINGS TOILET PARTITIONS URINAL SCREENS TOILET ACCESSORIES VISUAL DISPLAY SURFACES DISPLAY CASES DIRECTORIES SIGNAGE PORTABLE PARTITIONS ROLLER WINDOW SHADES ENTRANCE FLOOR MATS AND FRAMES MISC REMODEL TOTAL REMODEL COST	SF LF SF EA LS LS LS LS SF LS	10,000 200 20,000 2,000 3 1 1 1 1 1 1,500 1,200	12.00 30.00 1.00 1.50 8.00 3.00 2,000.00 5,000.00 5,000.00 20,000.00 15.00 12.00 50,000.00	120,000 6,000 20,000 3,000 24 3 2,000 15,000 5,000 20,000 20,000 22,500 14,400 50,000 1,017,127 1,089,141	38.35
HVAC MECHANICAL PLUMBING CONTROLS TEST & BALANCE	SF SF SF SF SF	28,400 28,400 28,400 28,400 28,400	11.00 1.00 0.00 0.75 1.00	312,400 28,400 0 21,300 28,400	
MECHANICAL DEMO FIRE PROTECTION ELECTRICAL SPECIAL SYSTEMS ELECTRICAL DEMO IT INFRASTRUCTURE	SF SF SF SF	28,400 28,400 28,400 28,400 28,400	0.75 0.75 12.00 4.00 0.60	21,300 21,300 340,800 113,600 17,040 113,480	
SUBTOTAL GENERAL CONDITIONS SUBTOTAL GENERAL CONTRACTOR OH&P TOTAL CONSTRUCTION COST SOFT COSTS TOTAL PROJECT BUDGET			0.05 0.10 0.30	2,107,161 105,358 2,212,519 221,252 2,433,771 730,131 3,163,902	35.85 85.70



Mansfield Library main entrance on north side



Mansfield Library at northeast corner



Existing Library space for future Learning Commons, looking southwest



Existing Library space for future Learning Commons, looking northeast





Student Athlete Academic Center

Project Statement
Project Program
Drawings
Project Budget
Photos

Project Statement

Athletic Academic Center - Adams Center

The Student Academic Center will provide expanded and dedicated space for concentrated and monitored study space for student athletes as well as much-needed office space for athletic programs. The small study room adjacent to the locker rooms and currently used by athletes is scheduled to be absorbed by the expansion of the locker rooms – See Locker Room Project.

The project will be a two-level addition located in a "notch" on the west side of the building immediately south of the Rec Center addition. The first level of approximately 4,344 sf will contain an expanded lobby to maintain the required exiting from the northwest corner of the Adams Center along with a small suite of offices for the athletic development office, providing them with convenient access to the visiting public. The second level of approximately 6,600 sf will house the Academic Center and support spaces, a classroom seating 30, additional offices, a conference room, and additional circulation space. The adjacent restrooms will be upgraded as part of this project. This location on the second level will be near other administrative functions and will allow convenient access and monitoring of students in the Academic Center.

This addition will improve the appearance of this highly-visible west side of the Adams Center. The twostory façade will provide an opportunity to update and integrate the façade of the main entry/ticketing with the Rec Center.

Mechanical:

- Heating will be provided via central plant steam. An existing steam main exists within the building it will be routed to a new shell and tube heat exchanger located in the new mechanical space. Hot water will be distributed throughout the addition and remodeled areas by base mounted pumps.
- Cooling will be provided by a direct expansion cooling provided within the air handler located in the roof mounted air handler.
- Heating hydronic water piping will be treated with a percentage of propylene glycol to prevent freezing of piping and coils.
- New air handler will be provided to provide ventilation and space temperature. Individual zoning will be provided by variable air volume units with hot water reheat coils.
- Temperature Control system will be integrated into Campus front end system. All control points will be remotely adjustable through DDC system.
- Domestic water will be provided by connection to existing services.
- Relocation of existing make up air unit and exhaust fan will be required.
- Fire protection will be connected to existing systems and comply with NFPA 13.

Electrical:

- Electrical power will come from the existing distribution system in the Adams Center. A new panel and feeder will be required to serve the new loads.
- Most spaces will use cost effective, high efficiency lighting fixtures with fluorescent lamps. LED fixtures
 will be considered where appropriate. Use of incandescent or high intensity discharge lamps will be
 avoided unless required. Exterior lighting fixtures will use cold weather ballasts or LED source. All
 fixture selections will be coordinated with Owner for lamp types and compatibility with maintenance
 requirements and Campus Standards.
- Lighting Controls
 - A lighting control panel (LCP) with time clock will be included for all common areas and exterior lighting.

- Fixtures could be controlled by time clock, occupancy sensor, daylight sensor or some combination of control devices.
- Occupancy sensors will likely be provided in most areas for lighting control.

Special Systems:

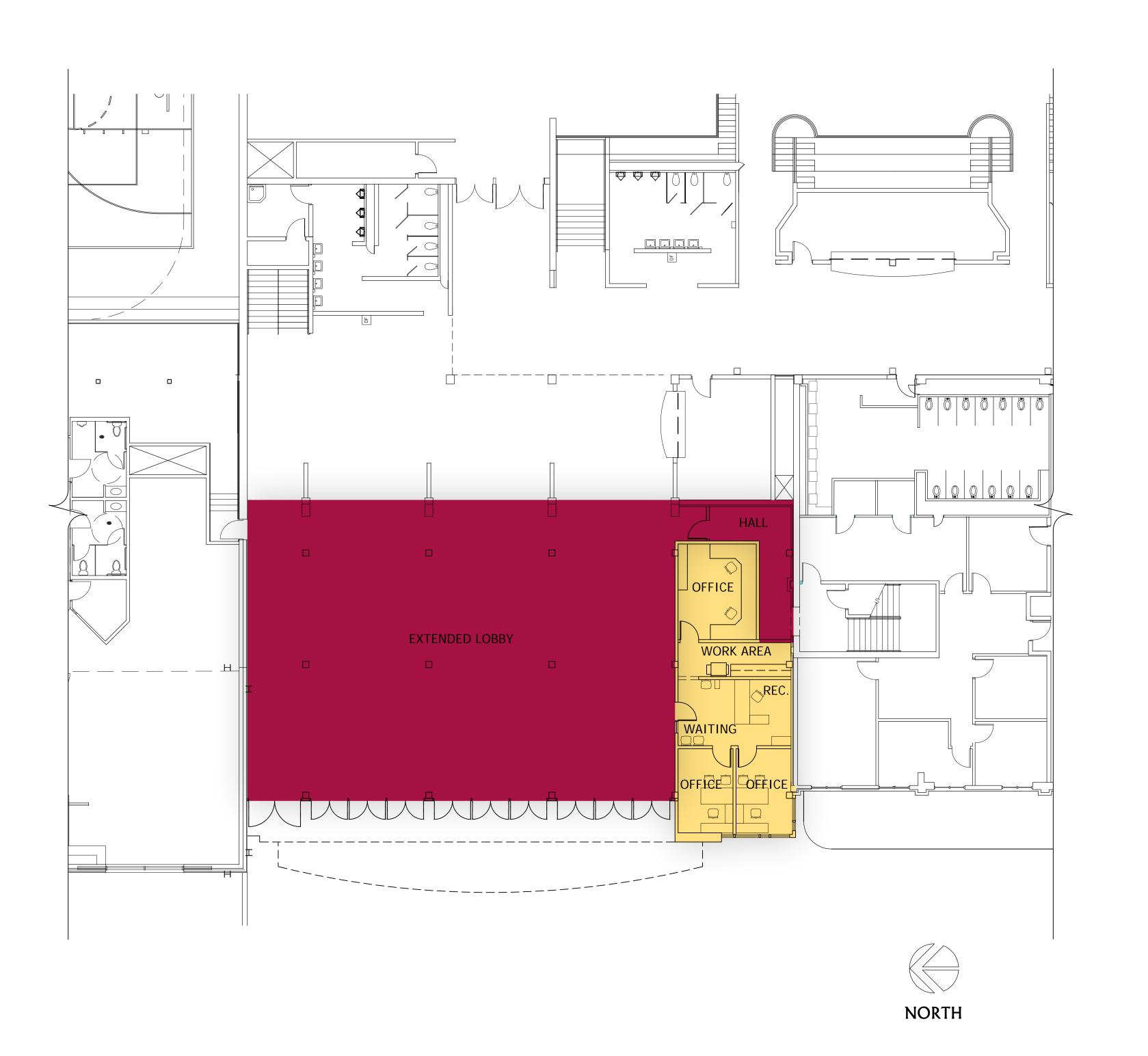
- Telecommunications -
 - Communications systems will be provided in accordance with the established University of Montana-Missoula campus standards.
 - Equipment room fittings such as a new rack with patch panels will be provided in the proposed electrical room.
 - Category 6 horizontal cabling will be provided from all communications outlets back to rack mounted patch panels in the electrical room.
 - Two hardwired drops per workstation.
 - Wireless access points provided throughout.
 - Structured cabling for voice and data.
 - Communications cabling will be installed in raceway in the walls and in cable tray above the corridor ceilings. Cable management such as hooks and loops will be provided for horizontal cable where required.
 - Data backbone riser cable to the new rack will be provided via optical fiber from the existing main distribution point.
 - Voice backbone riser cable to the new rack will be provided via multi-pair copper from the existing main distribution point.
- New fire alarm devices would be incorporated into the existing building fire alarm system.
- Need for electronic access control would be evaluated with the Owner.

IT Infrastructure:

Includes 40 Category 6 cable runs to provide two cables in each office area, single cables to each student work station, and single cables to each wireless access point. This estimate also includes 2 wireless access points to provide wall-to-wall coverage of the Facility, and four 42" digital displays for the Meeting Room. This estimate assumes that the existing connections to the campus voice and data networks are adequate.

PROGRAM OF SPACES ATHLETICS ACADEMIC CENTER

SPACE	EXISTING	PROPOSED
FIRST FLOOR		
LOBBY EXPANSION		3,344
OFFICE SUITE		800
CIRCULATION		200
TOTAL - FIRST FLOOR		4,344
SECOND FLOOR		
ACADEMIC CENTER	600	2,280
MEETING ROOM A		1,170
OFFICE SUITE		1,740
MECHANICAL/ELECTRICAL		320
RESTROOM REMODEL		644
CIRCULATION		1,090
TOTAL - SECOND FLOOR		7,244
TOTAL PROGRAM AREA	600	11.588





STUDENT ACADEMIC CENTER - FIRST FLOOR - PROPOSED LAYOUT

SCALE: 3/32" = 1'-0"

STUDENT ACADEMIC CENTER - SECOND FLOOR - PROPOSED LAYOUT

SCALE: 3/32" = 1'-0"



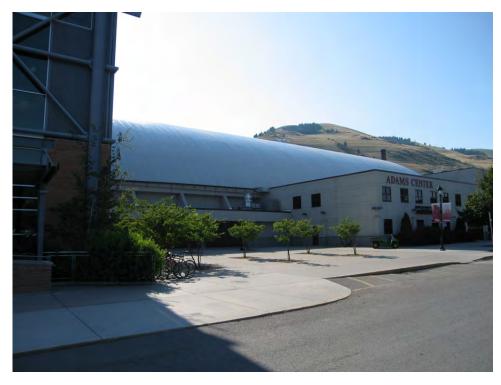


PRELIMINARY BUDGET

ATHLETIC ACADEMIC CENTER LOWER LEVEL 4,344.00 SF
THE UNIVERSITY OF MONTANA UPPER LEVEL 6,600.00 SF
TOTAL NEW CONST 10,944.00 SF

ITEM	UNIT	QUANT	COST/SF	TOTAL
DEMOLITION				
SAWCUT CONCRETE	LF	110	15.00	1,650
CONCRETE SLAB DEMO	SF	5,400	1.50	8,100
EXCAVATION	CY	237	15.00	3,555
DOORS AND HM FRAMES	EA	21	125.00	2,625
ALUMINUM WINDOWS	EA	2	250.00	500
CANOPY FASCIA	LF	88	0.70	62
ROOFTOP MECH UNIT	EA	1	500.00	500
CANOPY ROOFING/INSUL	SF	2,112	1.00	2,112
GYP BD SOFFIT	SF	2,112	0.80	1,690
CANOPY STRUCTURE	SF	2,112	5.00	10,560
EIFS EXTERIOR FINISH	SF	1,325	1.00	1,325
FLOOR TILE	SF	340	1.50	510
TOILET PARTITIONS	EA	6	50.00	300
URINAL SCREENS	EA	4	25.00	100
TOILET ACCESSORIES	LS	1	500.00	500
MISC DEMOLITION	LS	1	2,500.00	2,500
TOTAL DEMOLITION				36,588
NEW CONSTRUCTION				
CONCRETE FOOTINGS	LF	102	36.00	3,672
CONCRETE COLUMN FOOTINGS/PIERS	EA	10	250.00	2,500
CONCRETE FOUNDATION WALLS	LF	102	62.00	6,324
BACKFILL/COMPACTION	CY	200	20.00	4,000
4" CONCRETE SLAB	SF	4,564	5.00	22,820
4" CONCRETE SIDEWALK	SF	816	4.50	3,672
COLUMNS/LATERAL BRACING	SF	10,944	2.00	21,888
FLOOR STRUCTURE	SF	6,600	15.00	99,000
6" EXTERIOR FRAME WALLS/INS/GSH/TAPE	SF	2,100	8.00	16,800
ALUM/GLASS STOREFRONT SYSTEM	SF	600	35.00	21,000
EXTERIOR METAL CLADDING SYSTEM	SF	1,200	14.00	16,800
ROOF STRUCTURE	SF	6,600	10.00	66,000
EXPANSION JOINT - ROOF	LF	235	15.00	3,525
EXPANSION JOINT - WALL	LF	60	20.00	1,200
ROOF INSULATION	SF	6,600	6.00	39,600
ROOF MEMBRANE	SF	6,600	6.00	39,600
CAP FLASHING AT ROOM	LF	102	20.00	2,040
6" INTERIOR FRAME WALLS/INS/GB/TAPE	SF	3,238	7.00	22,666
4" INTERIOR PARTITIONS/INS/GB/TAPE	SF	3,500	5.00	17,500
PERIMETER WALL FURRING/INS/GB/TAPE	SF	4,128	5.00	20,640
ALUM/GLASS STOREFRONT/DOORS/HDWR	SF	830	50.00	41,500
SINGLE 3X7 WOOD DOOR/HM FRAME	EA	17	1,250.00	21,250
DOUBLE 3X7 WOOD DOOR/HM FRAME	EA	3	1,750.00	5,250
DOOR HARDWARE/DOOR	EA	23	500.00	11,500
STEEL/CONC STAIR	RISER	10	500.00	5,000
STEEL HANDRAIL - FLOOR MTD	LF	15	50.00	750
STEEL HANDRAIL - WALL MTD	LF	30	20.00	600
POLISHED CONCRETE	SF	3,900	1.00	3,900

2X2 CARPET TILE CERAMIC FLOOR TILE CERAMIC WALL TILE 2X2 ACOUSTIC CEILING GYP BD CEILING - NEW/TAPE INTERIOR PAINTING - CMU WALLS INTERIOR PAINTING - GYP BD WALLS INTERIOR PAINTING - GYP BD CEILING TOILET PARTITIONS URINAL SCREENS TOILET ACCESSORIES VISUAL DISPLAY SURFACES AV EQUIPMENT IT ALLOWANCE MISCELLANEOUS TOTAL REMODEL	SF SF SF SF SF SF EA LS LS LS	7,066 576 1,440 11,000 500 2,000 16,000 500 6 4 1 1	5.00 10.00 8.00 5.00 6.00 1.30 1.00 1.30 700.00 300.00 5,000.00 2,500.00 2,500.00 20,000.00	35,330 5,760 11,520 55,000 3,000 2,600 16,000 650 4,200 1,200 5,000 2,500 2,500 2,500 20,000 691,257	
TOTAL ARCHITECTURAL				727,845	66.51
HVAC MECHANICAL PLUMBING CONTROLS TEST & BALANCE MECHANICAL DEMO FIRE PROTECTION ELECTRICAL SPECIAL SYSTEMS ELECTRICAL DEMO IT INFRASTRUCTURE TOTAL M/E	SF SF SF SF SF SF SF SF	10,944 10,944 10,944 10,944 10,944 10,944 10,944 10,944	21.50 11.75 7.00 5.00 1.50 4.00 4.00 10.75 3.00 1.00	235,296 128,592 76,608 54,720 16,416 43,776 43,776 117,648 32,832 10,944 26,900 787,508	71.96
SUBTOTAL GENERAL CONDITIONS SUBTOTAL GENERAL CONTRACTOR OH&P TOTAL CONSTRUCTION COST SOFT COSTS TOTAL PROJECT COST			0.05 0.10 0.30	1,515,353 75,768 1,591,121 159,112 1,750,233 525,070 2,275,303	159.93



Location of future Athletic Academic Center looking southeast



Looking northeast



Location of future Athletic Academic Center looking northeast with Recreation Center in background



Pedestrian access along westside of Adams Center





Athletics Weight Training Facility

Project Statement
Project Program
Drawings
Project Budget
Photos

Project Statement

Weight Training Facility – Adams Center

A new Weight Training and Coaches Locker Room Facilities will be developed in the space presently occupied by the Art Annex at the south end of the Adams Center complex. The project will involve extensive demolition and remodeling of this 12,000 sf space immediately south of the Auxiliary Gymnasiums. The existing weight training area will be remodeled into expanded locker rooms and team facilities – See Locker Room Project.

The Weight Training Facility will feature a single level, high-volume space to accommodate weight sets and machines and to provide flexibility for future equipment and program changes. The room will be accessed through the existing north/south corridor serving the pool area. New windows will be located in the west wall and possibly the south wall to provide maximum natural light. New doors in the west wall will provide access to the exterior courtyard along with code-required exiting. The exterior courtyard will be cleared of all Art Department equipment and structures and leveled for future athletic use. The brick fence will remain in place for now. The west and south facades of the building will be upgraded with windows and new materials to improve the exterior appearance and integrate with recent upgrades to the complex.

New male and female coaches locker and shower facilities will be co-located in this space along with restrooms for student athletes, three offices, and storage areas.

The existing mechanical/electrical systems will be completely replaced with new code-compliant and energy-efficient systems as described below.

Mechanical:

- Heating will be provided from central plant steam located within the existing building.
- Cooling will be provided by a remote air cooled condensing unit located on the West side of the building.
- A new make up air unit will be provided to provide ventilation and space heating and cooling.
- Temperature Control system will be integrated into Campus front end system. All control points will be remotely adjustable through DDC system.

Electrical:

- Electrical power will come from the existing distribution system in the Art Annex. Existing panels will be reused or relocated.
- Most spaces will use fixtures cost effective, high efficiency lighting fixtures with fluorescent lamps. LED fixtures will be considered where appropriate. Use of incandescent or high intensity discharge lamps will be avoided unless required. All fixture selections will be coordinated with Owner for lamp types and compatibility with maintenance requirements and Campus Standards.
- Lighting Controls
 - A small lighting control panel (LCP) with time clock will be included for control of main area lighting.
 - Fixtures could be controlled by time clock, occupancy sensor or some combination of control devices.
 - Occupancy sensors would be used in restrooms and offices.

Special Systems:

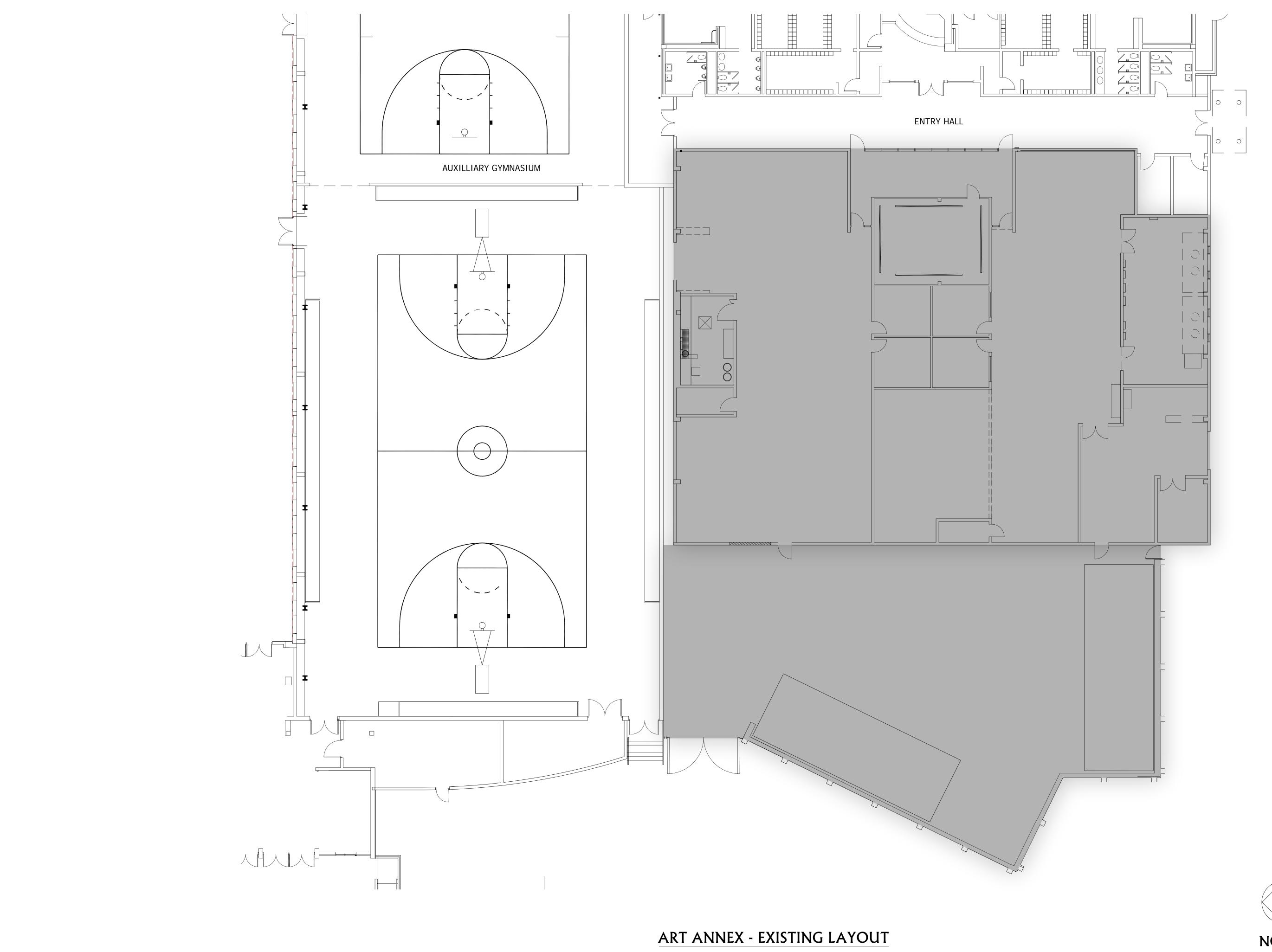
- Telecommunications -
 - Requirements for communication systems would be limited. However, communications systems will be provided in accordance with the established University of Montana-Missoula campus standards.
 - Category 6 horizontal cabling will be provided from all communications outlets back to rack mounted patch panels.
 - Two hardwired drops per workstation with additional data jacks where required.
 - Wireless access points provided throughout.
 - Structured cabling for voice and data.
 - Cable management such as hooks and loops will be provided for horizontal cable where required.
- New fire alarm devices would be incorporated into the existing building fire alarm system.
- Need for electronic access control would be evaluated with the Owner.

IT Infrastructure:

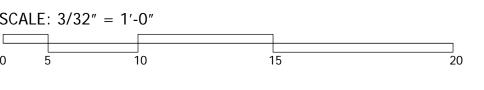
Includes 8 Category 6 cable runs to provide two cables in each office area and single cables to each wireless access point. This estimate also includes 2 wireless access points to provide wall-to-wall coverage of the Facility and four 42" digital displays for the Weight Training room. This estimate assumes that the existing connections to the campus voice and data networks are adequate and that the existing network switches have eight open ports.

PROGRAM OF SPACES WEIGHT TRAINING AND COACHES LOCKER ROOMS

SPACE	EXISTING	PROPOSED
WEIGHT TRAINING	6,960	9,200
ENTRY		300
3 OFFICES		386
RESTROOMS		150
WOMEN'S LOCKER ROOMS		740
MEN'S LOCKERS ROOMS		836
STORAGE		100
TOTAL PROGRAM AREA	6,960	11,712

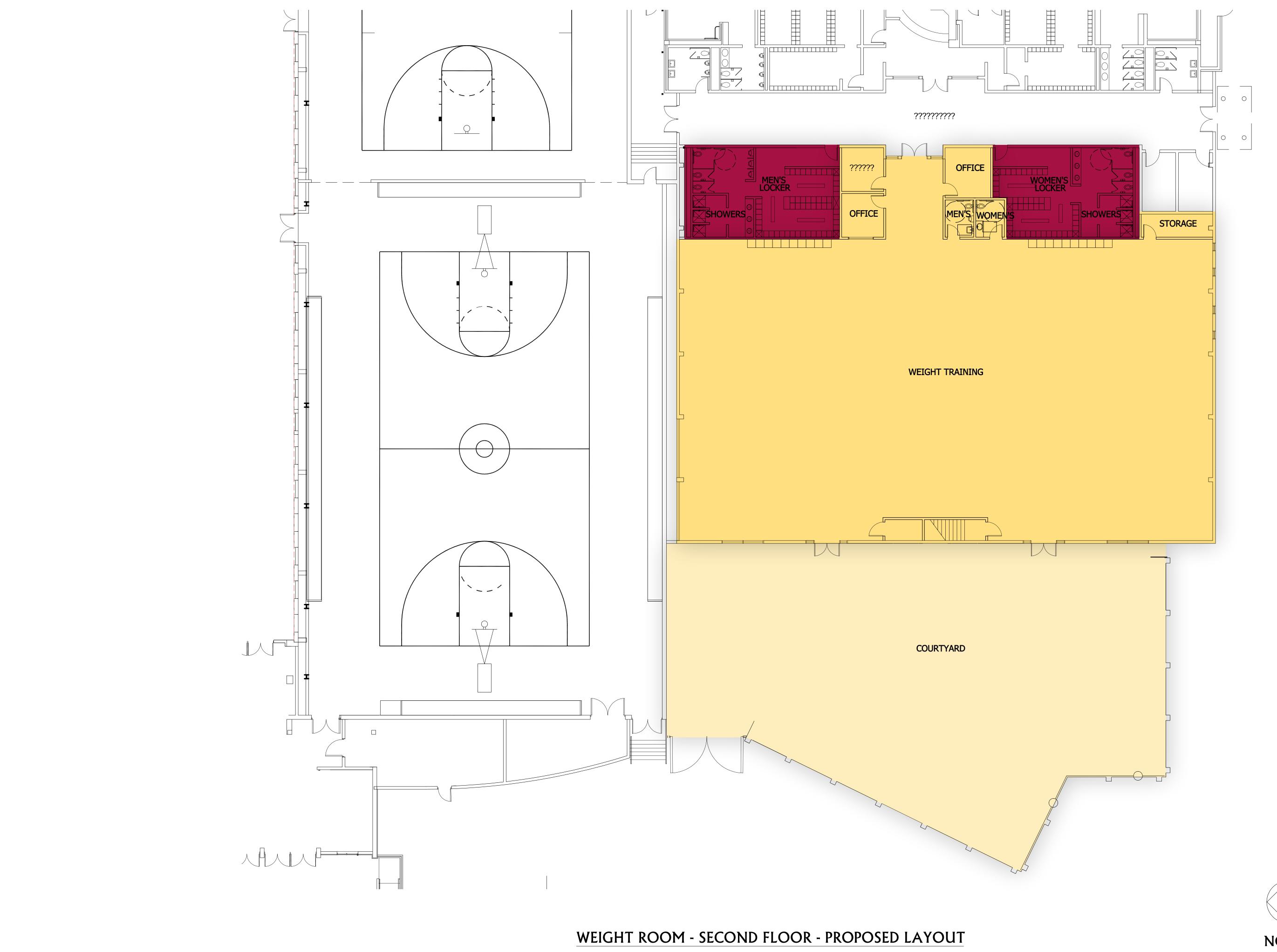


NORTH



THE UNIVERSITY OF MONTANA
MISSOULA, MONTANA CAMPUS









STUDENT SUCCESS CAMPAIGN MASTER PLAN

THE UNIVERSITY OF MONTANA

MISSOULA, MONTANA CAMPUS



ATHLETICS WEIGHT TRAINING FACILITY REMODELED AREA 12,000 SF

THE UNIVERSITY OF MONTANA

ITEM	UNIT	QUANT	COST/SF	TOTAL
DEMOLITION EXTERIOR WOOD SIDING/FURBING STRIPS	C.E.	4 000	4.50	4.500
EXTERIOR WOOD SIDING/FURRING STRIPS	SF	1,000	1.50	,
EXTERIOR CMU WALLS FOR WNDW OPNGS EXTERIOR KILN ROOF STRUCTURE	SF SF	770 880	3.00	•
EXTERIOR RILIN ROOF STRUCTURE	SF	760	5.00 5.00	4,400 3,800
EXTERIOR FORGE ROOF STRUCTURE EXTERIOR SLABS/FOOTINGS	SF SF	2,000	1.00	2,000
				0
SAWCUT CONCRETE SLAB	LF	650	20.00	13,000
CONCRETE SLAB DEMO	SF	1,000	4.00	,
HM DOORS AND RELITES IN CORRIDOR	LS	1	1,000.00	
GYP BD CEILING FRAME WALLS	SF SF	12,000	0.60	•
CMU WALLS	SF SF	7,560	7.00	•
HM DOORS/FRAMES PER LEAF	EA	3,570 20	2.00 125.00	
RELITES/FRAMES RELITES/FRAMES	EA	4	50.00	
OH DOOR	EA	1	300.00	
STEEL WINDOW	SF	100	5.00	
WOOD/METAL TABLES	LS	100	2,000.00	2,000
MISC DEMOLITION	LS	1	5,000.00	5,000
TOTAL DEMOLITION	LO	'	3,000.00	1 09,770
TOTAL DEMOLITION				109,770
REMODEL				
EXTERIOR INSUL/FINISH SYSTEM - EIFS	SF	1,200	10.00	12,000
METAL PANEL SYSTEM	SF	1,000	12.00	,
ALUMINUM/GLASS WINDOW SYSTEM	SF	616	35.00	
ALUMINUM/GLASS DOORS - PAIR W/HRDWR	PR	2	2,500.00	
PREP AND GRAVEL COURTYARD	SF	7,000	0.50	
EXTERIOR WINDOW SUNSCREENS	LF	44	1,000.00	44,000
				0
INT ALUM/GLASS ENTRY SYSTEM	SF	140	30.00	4,200
INT ALUM/GLASS DOORS/HRDWR	PR	1	2,200.00	
8" CMU WALLS	SF	420	10.00	•
6" FRAME WALLS/INS/GB/TAPE	SF	5,000	7.00	,
PERIMETER WALL FURRING/INS/GB/TAPE	SF	3,200	5.00	16,000
SINGLE 3X7 HM DOOR/FRAME	EA	8	1,000.00	8,000
DOOR HARDWARE/DOOR	EA	8	600.00	
VANITIES	LF	18	150.00	
STORAGE CUBICLES	LF	40	100.00	
2X2 CARPET TILE	SF	3,400	5.00	
RUBBER MAT FLOORING	SF	7,500	10.00	•
CERAMIC FLOOR TILE	SF	1,100	10.00	
CERAMIC WALL TILE	SF	2,400	8.00	
2X2 ACOUSTIC CEILING	SF	9,000	5.00	
GYP BD CEILING - NEW/TAPE	SF	1,000	6.00	
SPECIALTY CEILING TREATMENT	SF	2,000	12.00	
GYB BD BULKHEAD/TAPE - 3' HIGH	SF	450		
INTERIOR PAINTING - CMU WALLS INTERIOR PAINTING - GYP BD WALLS	SF	2,220	1.30	
	SF	7,450		
INTERIOR PAINTING - GYP BD CEILING	SF	1,450	1.30	1,885

TOILET PARTITIONS URINAL SCREENS TOILET ACCESSORIES VISUAL DISPLAY SURFACES ROLLER WINDOW SHADES LOCKERS WALL MIRRORS WALL PROTECTION MISC REMODEL TOTAL REMODEL	EA EA LS LS SF EA SF LF LS	6 2 1 1 616 100 1,400 220	700.00 300.00 3,000.00 2,000.00 15.00 200.00 6.00 15.00 20,000.00	4,200 600 3,000 2,000 9,240 20,000 8,400 3,300 20,000 462,021	
TOTAL ARCHITECTURAL				571,791	47.65
HVAC MECHANICAL PLUMBING CONTROLS TEST & BALANCE MECHANICAL DEMO FIRE PROTECTION ELECTRICAL SPECIAL SYSTEMS ELECTRICAL DEMO IT INFRASTRUCTURE TOTAL M/E	SF SF SF SF SF SF SF SF	12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000 12,000	23.00 7.00 3.00 4.00 1.50 4.50 11.00 2.00 1.00	276,000 84,000 36,000 48,000 18,000 54,000 132,000 24,000 12,000 8,800 710,800	59.23
SUBTOTAL GENERAL CONDITIONS SUBTOTAL GENERAL CONTRACTOR OH&P TOTAL CONSTRUCTION COST SOFT COSTS TOTAL PROJECT BUDGET			0.05 0.10 0.30	1,282,591 64,130 1,346,721 134,672 1,481,393 444,418 1,925,810	123.45



Proposed Weight Training Building with courtyard in foreground



Proposed Weight Training Building looking north





Athletics Locker Room Expansion

Project Statement
Project Program
Drawings
Project Budget
Photos

Project Statement

Athletic Locker Room Expansion – Adams Center

The Locker Room Expansion project will enlarge and reconfigure the current locker room facilities by taking over spaces occupied by weight training and the athletic study. Located on the east side of the main level of the Adams Center, this combined space will focus on providing improved locker room, showers, and team facilities for the football program while improving facilities for other sports as well. With a total square footage of 13,500 sf, the footprint straddles two floor levels with a level change of approximately 36". The design of this space is further complicated by the arched beam/column terminations from the roof of the fieldhouse.

The reconfigured design will work around existing floor levels, limited ceiling heights, existing columns, and shear walls. The interior will utilize durable, low maintenance materials to accommodate the high-use environment. With no natural lighting available, artificial lighting strategies will be important. Clear and convenient circulation and exiting from the locker rooms to other parts of the facility is critical to the success of the project.

The new locker facilities will re-utilize the existing HVAC systems currently in place and fed from mechanical rooms above and to the east of the Adams Center.

Mechanical:

- Heating and cooling of the space will be provided by existing HVAC units with the ductwork being redistributed for new layout.
- New exhaust fan layout and distribution will be provided for new locker room layout.
- Temperature Control system will be integrated into Campus front end system. All control points will be remotely adjustable through DDC system.
- Domestic water will be provided by connection to existing services.

Electrical:

- Electrical power will come from the existing distribution system in the Adams Center. A new panel and feeder will be required to serve the new loads.
- Most spaces will use cost effective, high efficiency lighting fixtures with fluorescent lamps. LED fixtures
 will be considered where appropriate. Use of incandescent or high intensity discharge lamps will be
 avoided unless required. All fixture selections will be coordinated with Owner for lamp types and
 compatibility with maintenance requirements and Campus Standards.
- Lighting Controls
 - A lighting control panel (LCP) with time clock will be included for control of most spaces.
 - Fixtures could be controlled by time clock, occupancy sensor or some combination of control devices
 - Occupancy sensors would be included in most areas.

Special Systems:

- Telecommunications -
 - Requirements for communication systems would be limited. However, communications systems will be provided in accordance with the established University of Montana-Missoula campus standards.

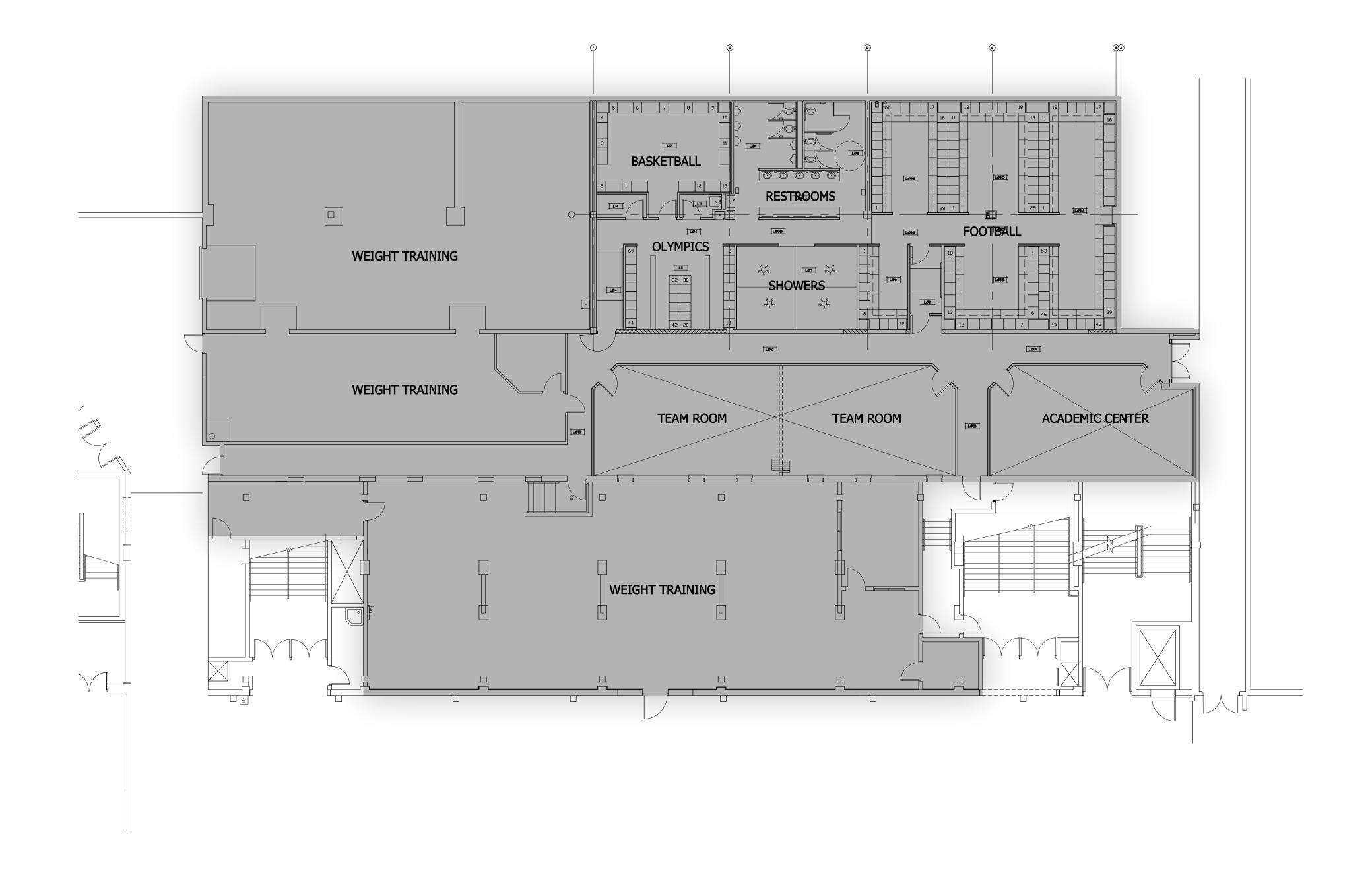
- Category 6 horizontal cabling will be provided from all communications outlets back to rack mounted patch panels in the electrical room.
 - Two hardwired drops per workstation.
 - Wireless access points provided throughout.
 - Structured cabling for voice and data.
- Cable management such as hooks and loops will be provided for horizontal cable where required.
- New fire alarm devices would be incorporated into the existing building fire alarm system.
- Need for electronic access control would be evaluated with the Owner.

IT Infrastructure:

Includes 16 Category 6 cable runs to provide general network access throughout the Locker Rooms. This estimate also includes 5 wireless access points to provide wall-to-wall coverage of the facility, one 24-port network switch to support the wired and wireless connections, and \$2,400 per room for digital display or digital video projector for the Staff Meeting Room and Team Room. This estimate assumes that the existing connections to the campus voice and data networks are adequate.

PROGRAM OF SPACES LOCKERS AND TEAM ROOM FACILITIES

SPACE	EXISTING	PROPOSED
FOOTBALL		
LOCKER ROOM	1,600	3,160
SHOWER/RESTROOM	847	1,450
CIRCULATION		318
TOTAL	2,447	4,928
MEN'S BASKETBALL		
LOCKER ROOM	337	456
SHOWER/RESTROOM	SHARED	400
LOUNGE	NONE	784
TOTAL	337	1,640
MEN'S OLYMPICS		
LOCKER ROOM	260	1,000
SHOWER/RESTROOM	SHARED	400
LOUNGE	NONE	NONE
TOTAL	260	1,400
OFFICIALS		
LOUNGE		208
SHOWER/RESTROOM - M		143
SHOWER/RESTROOM - F		192
TOTAL		340
SHARED AREA		
TEAM MEETING ROOMS	1 1 1 1 1	2 700
CIRCULATION	1,144 612	3,700 1,000
TOTAL	1, 756	4,700
TOTAL PROGRAM AREA	4,800	13,008

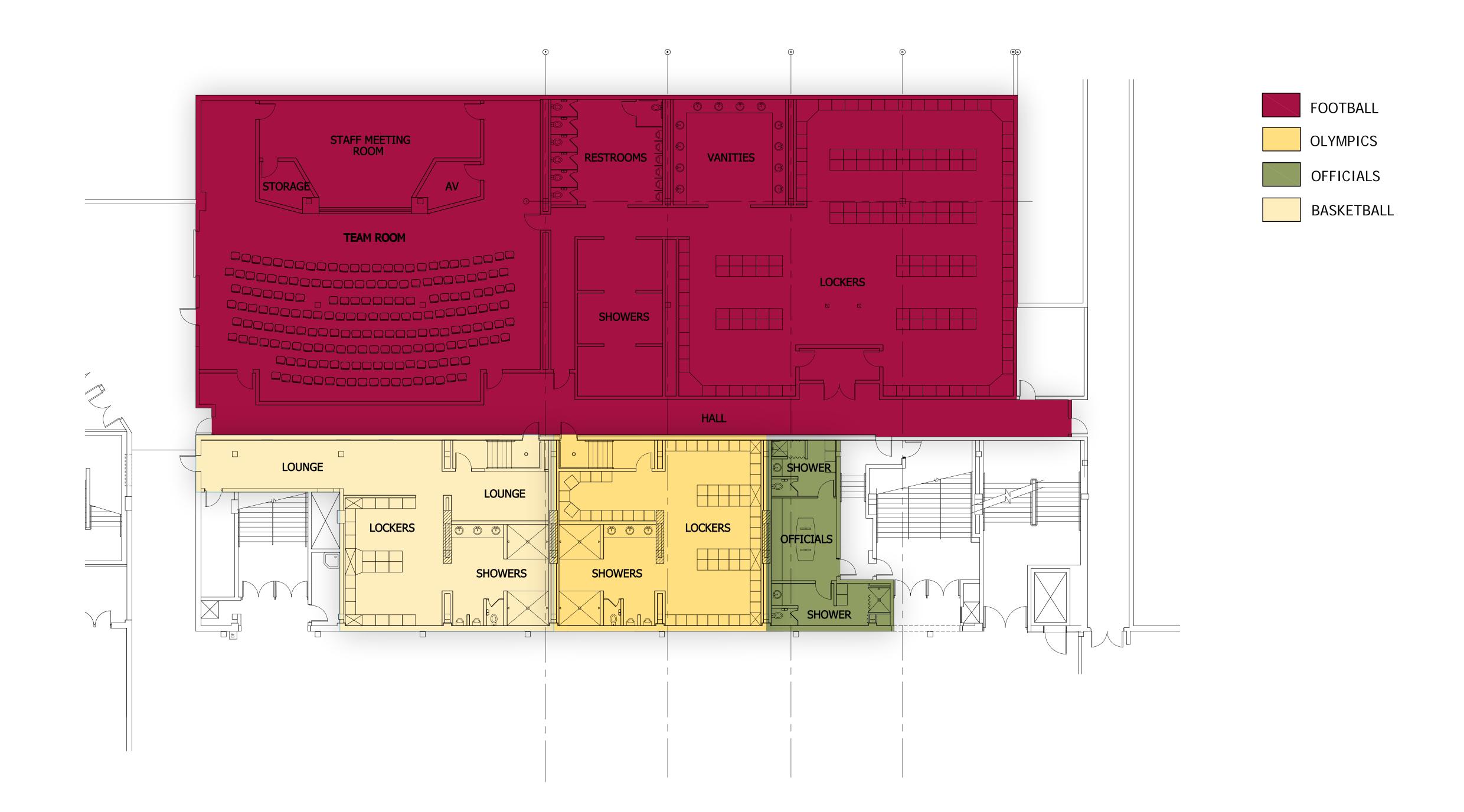




















PRELIMINARY BUDGET LOCKER ROOM EXPANSION THE UNIVERSITY OF MONTANA

REMODELED AREA 13,500.00 SF

DEMOLITION SAWCUT CONCRETE	ITEM	UNIT	QUANT	COST/SF	TOTAL
CONCRETE SLAB DEMO SSP \$300 275 SAWCUT CMU WALL LF 18 15.00 270 DOORS AND HM FRAMES EA 16 125.00 2,000 OH DOOR EA 16 125.00 2,000 OH DOOR EA 1 300.00 300 RELITES/FRAMES EA 1 1300.00 7.70 9,100 GYP BD CEILING SF 13,000 0.70 9,100 GYP BD CEILING SF 1,480 0.80 1.184 FRAME WALLS SF 5,300 1.00 5,300 CMU WALLS SF 1,740 2.00 3,480 FURRING WALLS SF 1,740 2.00 3,480 FURRING WALLS SF 1,150 1.00 1,150 CARPET SF 4,000 0.50 2,000 FLOOR TILE SF 3,344 1.50 5,016 RUBBER FLOORING SF 3,344 1.50 5,016 RUBBER FLOORING SF 5,500 0.50 2,750 VCT/SHEET VINYL FLOORING SF 5,500 0.50 2,750 VCT/SHEET VINYL FLOORING SF 5,500 0.50 2,750 VCT/SHEET VINYL FLOORING SF 5,500 0.50 2,750 UCT/SHEET VINYL FLOORING SF 300 1.00 300 VANITIES LF 25 10.00 250 URINAL SCREENS EA 3 25.00 75 TOILET PARTITIONS EA 5 50.00 250 URINAL SCREENS EA 3 50.00 250 URINAL SCREENS EA 6 80.00 480 CONCRETE FLOOR INFILL SF 86 80.00 480 CONCRETE STEPS RISER 6 80.00 4.80 CONCRETE STEPS SF 2,640 10.00 26,400 6° FRAME WALLS/INS/GB/TAPE SF 2,640 10.00 26,400 6° FRAME WALLS/INS/GB/TAPE SF 2,640 10.00 26,500 STEEL HANDRAILS FRAME EA 18 1,000.00 10,000 VANITIES LF 16 25.00 400 SINGLE 3X7 HM DOOR/FRAME EA 18 1,000.00 10,000 VANITIES LF 82 150.00 17,500 DOUBLE 3X7 HM DOOR/FRAME EA 1 1,750.00 17,500 DOUBLE 3X7 HM DOOR/FRAME EA 1 1,750.00 17,500 CERAMIC FLOOR TILE SF 7,800 1.00 7,800 INTERIOR PAINTING - GYP BD WALLS SF 5,800 1.00 7,800 INTERIOR PAINTING - GYP BD WALLS SF 5,800 1.00 7,800 INTERIOR PAINTING - GYP BD WALLS SF 5,800 1.00 7,800 INTERIOR PAINTING - GYP BD CEILING SF 1,220 6.00 61,100 URINAL SCREENS EA 5 300.00 1,500 URINAL SCREENS EA 12,000.00 22,000 URINAL SCREENS EA 5 300.00 1,500 URINAL SCREENS EA 5 300.00 1,500 URINAL	DEMOLITION				
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PERIMETER WALL FURRING/INS/GB/TAPE SF 4,500 5.00 22,500 STEEL HANDRAILS LF 16 25.00 400 SINGLE 3X7 HM DOOR/FRAME EA 18 1,000.00 18,000 DOUBLE 3X7 HM DOOR/FRAME EA 1 1,750.00 1,750 DOOR HARDWARE/DOOR EA 20 1,000.00 20,000 VANITIES LF 82 150.00 12,300 2X2 CARPET TILE SF 5,780 5.00 28,900 CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 1 70.00 7,700	CMU WALLS - 8"	SF	2,640	10.00	26,400
STEEL HANDRAILS LF 16 25.00 400 SINGLE 3X7 HM DOOR/FRAME EA 18 1,000.00 18,000 DOUBLE 3X7 HM DOOR/FRAME EA 1 1,750.00 1,750 DOOR HARDWARE/DOOR EA 20 1,000.00 20,000 VANITIES LF 82 150.00 12,300 2X2 CARPET TILE SF 5,780 5.00 28,900 CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 1 22,000.00 22,000 <td>6" FRAME WALLS/INS/GB/TAPE</td> <td>SF</td> <td>9,000</td> <td>7.00</td> <td>63,000</td>	6" FRAME WALLS/INS/GB/TAPE	SF	9,000	7.00	63,000
SINGLE 3X7 HM DOOR/FRAME EA 18 1,000.00 18,000 DOUBLE 3X7 HM DOOR/FRAME EA 1 1,750.00 1,750 DOOR HARDWARE/DOOR EA 20 1,000.00 20,000 VANITIES LF 82 150.00 12,300 2X2 CARPET TILE SF 5,780 5.00 28,900 CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000	PERIMETER WALL FURRING/INS/GB/TAPE	SF	4,500	5.00	22,500
DOUBLE 3X7 HM DOOR/FRAME EA 1 1,750.00 1,750 DOOR HARDWARE/DOOR EA 20 1,000.00 20,000 VANITIES LF 82 150.00 12,300 2X2 CARPET TILE SF 5,780 5.00 28,900 CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL	STEEL HANDRAILS	LF	16	25.00	400
DOUBLE 3X7 HM DOOR/FRAME EA 1 1,750.00 1,750 DOOR HARDWARE/DOOR EA 20 1,000.00 20,000 VANITIES LF 82 150.00 12,300 2X2 CARPET TILE SF 5,780 5.00 28,900 CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL	SINGLE 3X7 HM DOOR/FRAME	EA	18	1,000.00	18,000
DOOR HARDWARE/DOOR EA 20 1,000.00 20,000 VANITIES LF 82 150.00 12,300 2X2 CARPET TILE SF 5,780 5.00 28,900 CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL EA 120 300.00 36,000	DOUBLE 3X7 HM DOOR/FRAME	EA	1		
2X2 CARPET TILE SF 5,780 5.00 28,900 CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL EA 120 300.00 36,000 LOCKERS - BASKETBALL, OLYMPIC EA 80 200.00 16,000	DOOR HARDWARE/DOOR	EA	20	1,000.00	20,000
2X2 CARPET TILE SF 5,780 5.00 28,900 CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL EA 120 300.00 36,000 LOCKERS - BASKETBALL, OLYMPIC EA 80 200.00 16,000	VANITIES	LF	82	150.00	12,300
CERAMIC FLOOR TILE SF 7,350 10.00 73,500 CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL EA 120 300.00 36,000 LOCKERS - BASKETBALL, OLYMPIC EA 80 200.00 16,000		SF			28,900
CERAMIC WALL TILE SF 7,000 8.00 56,000 2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL EA 120 300.00 36,000 LOCKERS - BASKETBALL, OLYMPIC EA 80 200.00 16,000	CERAMIC FLOOR TILE	SF	7,350	10.00	
2X2 ACOUSTIC CEILING SF 12,220 5.00 61,100 GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL EA 120 300.00 36,000 LOCKERS - BASKETBALL, OLYMPIC EA 80 200.00 16,000	CERAMIC WALL TILE	SF			
GYP BD CEILING - NEW/TAPE SF 1,280 6.00 7,680 INTERIOR PAINTING - CMU WALLS SF 5,900 1.30 7,670 INTERIOR PAINTING - GYP BD WALLS SF 22,500 1.00 22,500 INTERIOR PAINTING - GYP BD CEILING SF 1,300 1.30 1,690 TOILET PARTITIONS EA 11 700.00 7,700 URINAL SCREENS EA 5 300.00 1,500 TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL EA 120 300.00 36,000 LOCKERS - BASKETBALL, OLYMPIC EA 80 200.00 16,000	2X2 ACOUSTIC CEILING		12,220		
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TOILET ACCESSORIES LS 1 22,000.00 22,000 LOCKERS - FOOTBALL EA 120 300.00 36,000 LOCKERS - BASKETBALL, OLYMPIC EA 80 200.00 16,000					
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LOCKERS - BASKETBALL, OLYMPIC EA 80 200.00 16,000					
	VISUAL DISPLAY SURFACES	LS		5,000.00	5,000

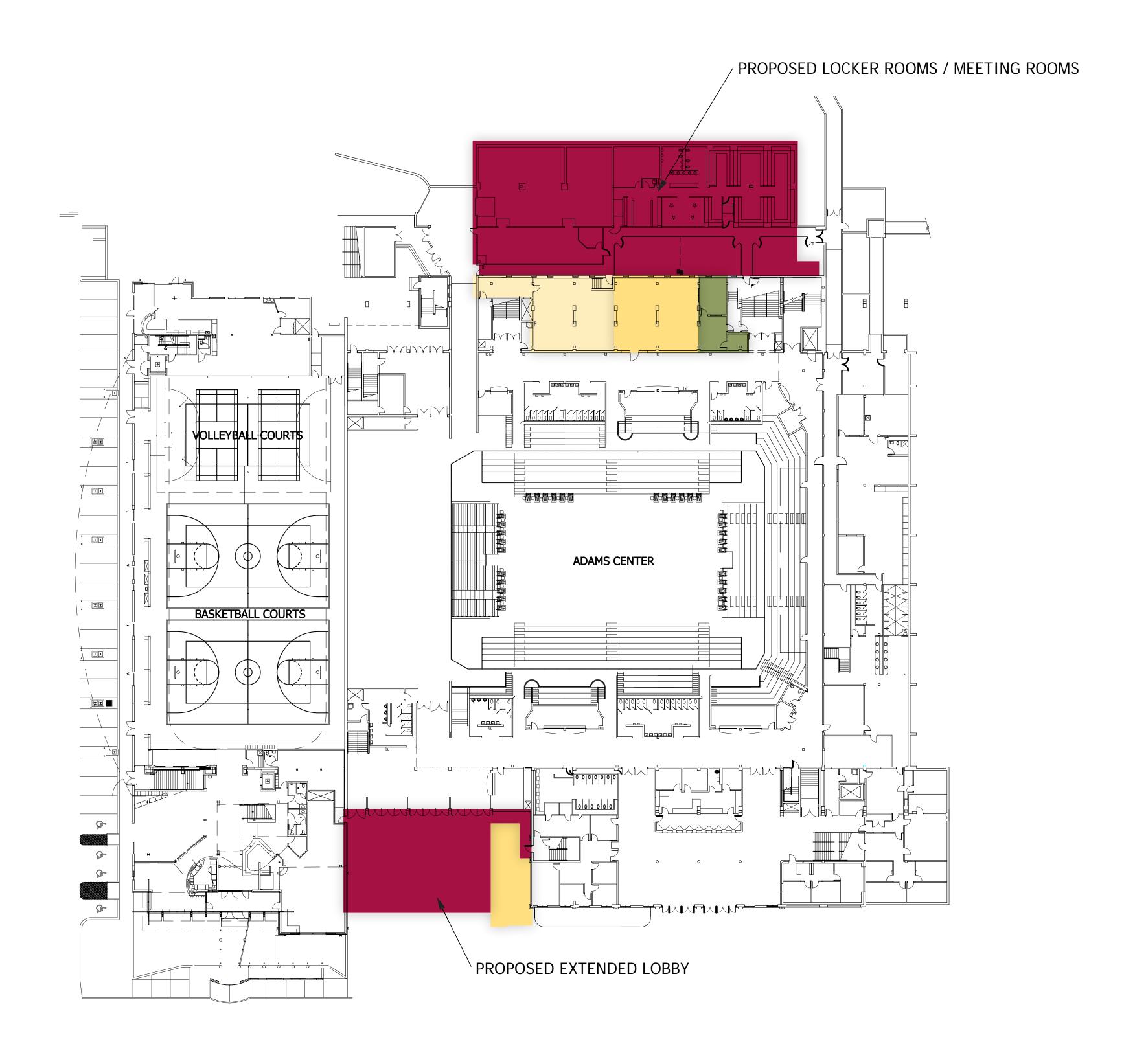
TALLOWANCE TOTAL REMODEL	AV EQUIPMENT	LS	1	20,000.00	20,000	
TOTAL ARCHITECTURAL SF 13,500.00 17.00 229,500 MECHANICAL SF 13,500.00 5.00 67,500 PLUMBING SF 13,500.00 9.00 121,500 CONTROLS SF 13,500.00 5.00 67,500 TEST & BALANCE SF 13,500.00 1.50 20,250 MECHANICAL DEMO SF 13,500.00 1.50 20,250 MECHANICAL DEMO SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 TOTAL M/E BUDGET SUBTOTAL 58,00 801,550 59.37 SUBTOTAL GENERAL CONDITIONS 0.05 69,816 SUBTOTAL GENERAL CONTRACTOR OH&P TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS	IT ALLOWANCE	LS	1	20,000.00	20,000	
HVAC SF 13,500.00 17.00 229,500 MECHANICAL SF 13,500.00 5.00 67,500 PLUMBING SF 13,500.00 9.00 121,500 CONTROLS SF 13,500.00 5.00 67,500 TEST & BALANCE SF 13,500.00 1.50 20,250 MECHANICAL DEMO SF 13,500.00 1.50 20,250 MECHANICAL DEMO SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 10.50 141,750 SPECIAL SYSTEMS SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE TOTAL M/E BUDGET 58.00 801,550 59.37 SUBTOTAL GENERAL CONDITIONS 0.05 69,816 SUBTOTAL GENERAL CONTRACTOR OH&P TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	TOTAL REMODEL				552,430	
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PLUMBING SF 13,500.00 9.00 121,500 CONTROLS SF 13,500.00 5.00 67,500 TEST & BALANCE SF 13,500.00 1.50 20,250 MECHANICAL DEMO SF 13,500.00 4.00 54,000 FIRE PROTECTION SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 10.50 141,750 SPECIAL SYSTEMS SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 18,550 59.37 SUBTOTAL 58.00 801,550 59.37 SUBTOTAL 1,466,131 GENERAL CONDITIONS 0.05 69,816 SUBTOTAL 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	HVAC	SF	13,500.00	17.00	229,500	
CONTROLS SF 13,500.00 5.00 67,500 TEST & BALANCE SF 13,500.00 1.50 20,250 MECHANICAL DEMO SF 13,500.00 4.00 54,000 FIRE PROTECTION SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 10.50 141,750 SPECIAL SYSTEMS SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 TOTAL M/E BUDGET 58.00 801,550 59.37 SUBTOTAL 1,396,315 SUBTOTAL 1,466,131 GENERAL CONDITIONS 0.05 69,816 SUBTOTAL 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	MECHANICAL	SF	13,500.00	5.00	67,500	
TEST & BALANCE SF 13,500.00 1.50 20,250 MECHANICAL DEMO SF 13,500.00 4.00 54,000 FIRE PROTECTION SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 10.50 141,750 SPECIAL SYSTEMS SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 TOTAL M/E BUDGET 58.00 801,550 59.37 SUBTOTAL 0.05 69,816 SUBTOTAL 1,466,131 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	PLUMBING	SF	13,500.00	9.00	121,500	
MECHANICAL DEMO SF 13,500.00 4.00 54,000 FIRE PROTECTION SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 10.50 141,750 SPECIAL SYSTEMS SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 18,550 59.37 SUBTOTAL 1,396,315 59.37 SUBTOTAL 0.05 69,816 SUBTOTAL 1,466,131 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	CONTROLS	SF	13,500.00	5.00	67,500	
FIRE PROTECTION SF 13,500.00 1.50 20,250 ELECTRICAL SF 13,500.00 10.50 141,750 SPECIAL SYSTEMS SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 18,550 59.37 SUBTOTAL 58.00 801,550 59.37 SUBTOTAL 0.05 69,816 1,466,131 SUBTOTAL 1,466,131 1,466,131 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 1,612,744 119.46 SOFT COSTS 0.30 483,823 19.46 1.466	TEST & BALANCE	SF	13,500.00	1.50	20,250	
ELECTRICAL SF 13,500.00 10.50 141,750 SPECIAL SYSTEMS SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 TOTAL M/E BUDGET 58.00 801,550 59.37 SUBTOTAL 0.05 69,816 SUBTOTAL 1,466,131 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	MECHANICAL DEMO	SF	13,500.00	4.00	54,000	
SPECIAL SYSTEMS SF 13,500.00 3.00 40,500 ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 13,500.00 1.50 20,250 TOTAL M/E BUDGET 58.00 801,550 59.37 SUBTOTAL 0.05 69,816 0.05 69,816 SUBTOTAL 1,466,131 1,466,131 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	FIRE PROTECTION	SF	13,500.00	1.50	20,250	
ELECTRICAL DEMO SF 13,500.00 1.50 20,250 IT INFRASTRUCTURE 18,550 18,550 58.00 59.37 SUBTOTAL 1,396,315 59.37 GENERAL CONDITIONS 0.05 69,816 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	ELECTRICAL		13,500.00	10.50	141,750	
IT INFRASTRUCTURE 18,550 TOTAL M/E BUDGET 58.00 801,550 59.37 SUBTOTAL 1,396,315 69,816 1,466,131 1,466,131 1,466,131 1,466,131 1,466,131 1,466,131 1,466,131 1,466,131 1,466,131 1,612,744 119.46 119.46 1,612,744 119.46 119.46 1,612,744 119.46 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 119.46 1,612,744 1,612,74	SPECIAL SYSTEMS		13,500.00	3.00	40,500	
SUBTOTAL 1,396,315 GENERAL CONDITIONS 0.05 69,816 SUBTOTAL 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	ELECTRICAL DEMO	SF	13,500.00	1.50	20,250	
SUBTOTAL 1,396,315 GENERAL CONDITIONS 0.05 69,816 SUBTOTAL 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	IT INFRASTRUCTURE				18,550	
GENERAL CONDITIONS 0.05 69,816 SUBTOTAL 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	TOTAL M/E BUDGET			58.00	801,550	59.37
GENERAL CONDITIONS 0.05 69,816 SUBTOTAL 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	SUBTOTAL				1.396.315	
SUBTOTAL 1,466,131 GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823	GENERAL CONDITIONS			0.05		
GENERAL CONTRACTOR OH&P 0.10 146,613 TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823					•	
TOTAL CONSTRUCTION COST 1,612,744 119.46 SOFT COSTS 0.30 483,823				0.10		
SOFT COSTS 0.30 483,823					•	119.46
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The University of Montana
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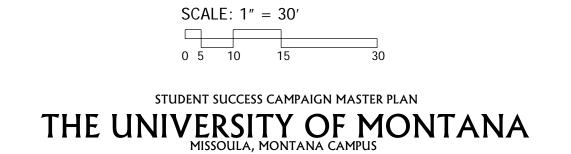
Appendix

Adams Center Composite Drawings

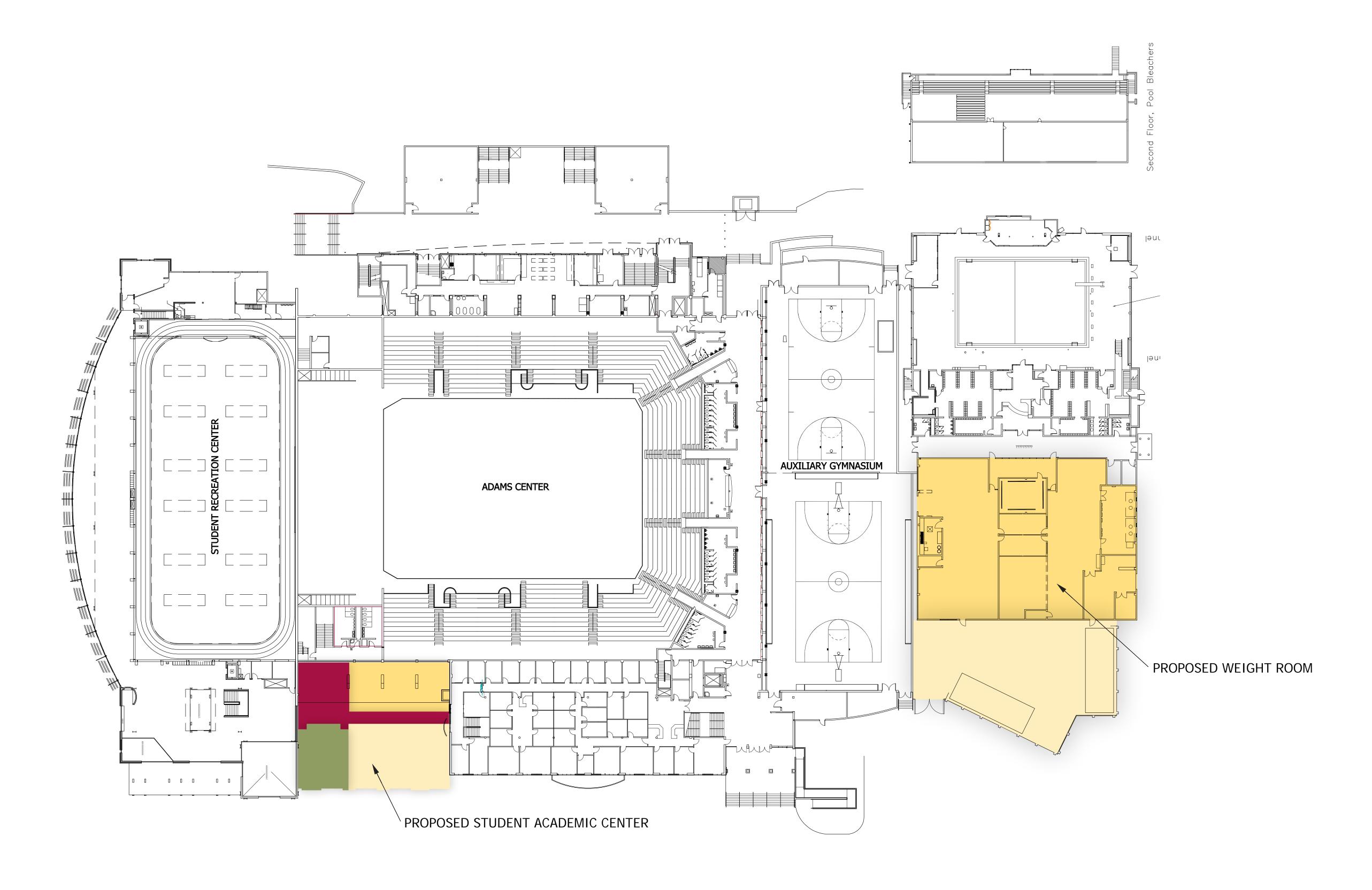






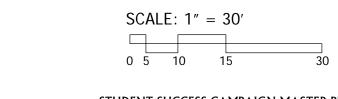
















Project: UM SSC

Client: A&E Architects
Subject: Probable Cost of
Discipline: IT Infrastructure Probable Cost of Construction Estimate

Building: **Art Annex**

Item	Unit Cost	Units	Quantity	Total Cost
Fiber Backhaul to Mcgill	\$5	feet	1000	\$5,000
Copper Backhaul to McGill	\$5	feet	1000	\$5,000
Category 6 Horiz. Cabling	\$300	cables	60	\$18,000
Wireless LAN	\$840		10	\$8,400
Network Switches	\$9,500	48-port switches	2	\$19,000
Classroom & Gallery A/V	\$1,200	room	4	\$4,800
Total Estimate				\$60,200

Project: **UM SSC** Client: A&E Architects

Subject: Probable Cost of Discipline: IT Infrastructure Probable Cost of Construction Estimate

Building: **Mansfield Library Learning Commons**

Item	Unit Cost	Units	Quantity	Total Cost
Category 6				
Horiz. Cabling	\$300	Cables	150	\$45,000
		Access		
Wireless LAN	\$840	Points	22	\$18,480
Network		48-port		
Switches	\$9,500	switches	4	\$38,000
		42" Digital		
Digital Displays	\$1,200	Display	10	\$12,000
Total Estimata				¢442.400
Total Estimate				\$113,480

Project: **UM SSC** Client: A&E Architects

Subject: Discipline: Probable Cost of Construction Estimate

IT Infrastructure

Building: **Athletic Academic Center**

Item	Unit Cost	Units	Quantity	Total Cost
Category 6 Horiz. Cabling	\$300	Cables	40	\$12,000
Wireless LAN	\$840	Access Points	5	\$4,200
Network Switches	\$9,500	48-port switches	1	\$9,500
Meeting Room A/V	\$1,200	Room	1	\$1,200
Total Estimate				\$26,900

Project: UM SSC Client: Subject: Discipline: A&E Architects

Probable Cost of Construction Estimate

IT Infrastructure

Building: **Weight Training Facility**

Item	Unit Cost	Units	Quantity	Total Cost
Category 6 Horiz. Cabling	\$300	Cables	8	\$2,400
Wireless LAN	\$840	Access Points	2	\$1,680
Network Switches	\$9,500	48-port switches	0	\$0
Weight Facility A/V	\$1,200	42" Digital Display	4	\$4,800
Total Estimate				\$8,880

Project: **UM SSC**

Client: A&E Architects

Probable Cost of Construction Estimate

Subject: Discipline: IT Infrastructure

Building: **Locker Room Expansion**

Item	Unit Cost	Units	Quantity	Total Cost
Category 6 Horiz.				
Cabling	\$300	Cables	16	\$4,800
		Access		
Wireless LAN	\$840	Points	5	\$4,200
		48-port		
Network Switches	\$9,500	switches	0.5	\$4,750
Team & Meeting				
Room A/V	\$2,400	Per Room	2	\$4,800
Total Estimate				\$18,550