MEMORANDUM

TO: University Facilities Planning Board: Kregg Aytes - Chair, Walt Banziger - Vice Chair, Kurt

Blunck, City of Bozeman, Chris Catlett, ASMSU President, Michael Everts, Chris Fastnow, Greg Gilpin, Brett Gunnink, Neil Jorgensen, ASMSU, Terry Leist, Robert Mokwa, Chris Kearns, Renee Reijo Pera, Faith Rifki, Tom Stump, Julie Tatarka, Jim Thull, David Kack, Leslie Schmidt, Keith

Hamburg and Nicole Redding

FROM: Candace Mastel, Planner; Campus Planning, Design & Construction

RE: June 20th, 2017 meeting of the University Facilities Planning Board to be held in the **Facilities**

Meeting Quonset at 3:30 pm

ITEM No. 1 - APPROVAL OF NOTES

Approval of the draft notes from June 6th, 2017

ITEM No. 2 – EXECUTIVE COMMITTEE REPORT

Report on any current Executive Committee actions

<u>ITEM No. 3 – CONSENT AGENDA</u> None

<u>ITEM No. 4 – RECOMMENDATION</u> Hannon Hall Culinary Arts Access Sidewalk

Presenter: Bill Mackin

<u>ITEM No. 5 – RECOMMENDATION</u> Recycling Signage

Presenter: EJ Hook

ITEM No. 6 – RECOMMENDATION Reid Hall Installation of Pow Wow Posters

Presenter: Walt Banziger

<u>ITEM No. 7 – DISCUSSION</u> How to Inform Campus of Rules on Wall Wraps

Presenter: Walt Banziger

ITEM No. 8 – INFORMATIONAL Earth Sciences – USGS Seismic Equipment GPS

Presenter: Candace Mastel

ITEM No. 9 – INFORMATIONAL New Residence Hall Site Selection

Presenter: Darryl Curfman

HORIZON ITEMS

- Interior Public Spaces Signage
- Turf Fields Facility Concept
- Renne Library Spaces & Technology Renovation
- External Building Signage Policy
- Master Planning Issues
- Revisit and Update Policies
- Second Phase of Garage Art
- Transportation Master Plan
- New Residence Hall Site Proposal

CM/am

PC:

President Cruzado Heidi Gagnon, VP Admin & Julie Kipfer, Communications

Finance

Amber Vestal, President's Office Maggie Hammett, President's Office Julie Heard, Provost Office

ASMSU President

Lisa Hespen, VP Admin & Finance

Jennifer Joyce, VP Student Success Leslie Schmidt, Asst.VP Research

Office

Tony Campeau, Registrar

Robert Putzke, MSU Police

Becky McMillan, Auxiliaries Services

Jody Barney, College of Agriculture Susan Fraser, College of Agriculture

Robin Happel, College of Agriculture

Elizabeth Schmidt, College of

Business

Candace Mastel, Campus Planning

MEETING MINUTES OF THE UNIVERSITY FACILITIES PLANNING BOARD June 6, 2017

Members Present: Kregg Aytes – Chair, Walt Banziger – Co-Chair, Kurt Blunck, Keith Hamburg, Tom

Stump, Leslie Schmidt, Dan Stevenson, David Singel, David Kack, James Thull, Rebecca

Owens, Kylar Clifton and Chris Catlett

Proxy: Kregg Aytes for Neil Jorgenson

Members Absent: Tom McNab for Faith Rifki, Chris Kearns, Susan Fraser for Charles Boyer, Mike Everts,

David Singel, Chris Fastnow, and Nicole Redding

Staff & Guests: Randy Stephens, Madison Graff, Hailey Muller, Sam J. Des Jardins, EJ Hook, Kristin

Blackler, Candace Mastel, EJ Hook, and Tony Campeau

The University Facilities Planning Board met at the Facilities Meeting Quonset beginning at 3:30 pm to discuss the following:

ITEM No. 1 - APPROVAL OF MEETING NOTES -

The meeting notes from May 16, 2017 were unanimously approved.

ITEM No. 2 – EXECUTIVE COMMITTEE REPORT – No Items

ITEM No. 3 – CONSENT AGENDA – No Items

ITEM No. 4 – RECOMMENDATION – Veterans Park Conceptual Design

Candace Mastel presented the Veterans Park conceptual designs. Mastel reminded UFPB that through the formerly proposed Romney project there was potential to relocate Veterans Park due to some modifications of the area that Romney was going to be affecting by the development and EHHD. As part of that, CPDC went into a conceptual design process with CTA Architects. During that process, the student Veterans Club and Brenda York and her staff have all been involved in the redevelopment of the park idea. A couple things became clear during that design process:

- 1. Veterans were very keen on producing a space that is universally accepted, but not clearly focused on their needs or experiences.
- 2. The park is for everyone on Campus as opposed to seeing a memorial
- 3. This is a park, not a memorial

The area that was chosen was the little knoll just north east of Gaines Hall north entry. Two things that were looked at was, is that area large enough and the sub-area just left of it, the sloped lawn area north of Gaines hall.

In the attached images, Option 2 was the original plan and Option 1 shows the original plus the adjacent sloped lawn. The plan is to create an experience through the space, including a sinuous serpentine wall that to the Veterans described a process of life/experience. We will be using natural materials that are indigenous to the State and area. Throughout the site will be little reminders of the Veterans service. The Veterans do not want to promote specific branches of the Military, but to make it an inclusive area for everyone. The larger space (*in Option 1*) at the top will be a gathering space for special events, classes or outdoor hang out spots.

Mastel noted that the existing flag located at the current Veteran's Park is planned to be relocated and lit at the new space.

Singel asked if there were any plans to add some landscaping to hide the view of the Gaines Hall service drive. Mastel said they will consider opportunities for that.

Rebecca Owens asked if there will be any signage or potential for dedication stones. Mastel noted that there may be some by the flag pole, but again the Veterans did not want to denote specific branches of Military.

Kurt Blunck motioned to approve the recommendation and David Singel seconded the motion.

The motion was unanimously approved.

The Vote: Yes: 13 No: 0

<u>ITEM No. 5 – RECOMMENDATION</u> – Bike Fix-It Station

Candace Mastel presented the proposed Bike Fix-It Station. Mastel noted that this would be the first Bike Fix-It Station in the core of campus for cyclists to repair their bikes. The installation works in concert with the recommendations of the Bicycle Master Plan and the Transportation Master Plan in supporting and advancing alternative transportation opportunities on campus.

The Bike Fix-It station proposed features a heavy-duty construction for institutional use and includes an outdoor pump, tools, and a wheel chock. In addition, bikes can be hung from a seat post hanger for ease of access during repair or for removal of wheels/changing of tubes. The station will be ordered in a cobalt blue color. Extensive research has been done with other universities to pick this unit based on ease of use and maintenance.

The station would be installed on the west side of the Strand Union Building, across from the kiosk for posting notices. The station would be directly mounted on the existing concrete slab while still having enough room for circulation around the installation for pedestrian and bicycle traffic.

Owens asked if there will be a QR code on the station to explain how to use the tools. Mastel said that is something they can look into. She said they are going to look into placing a wrap on the station for information purposes.

Kurt Blunck motioned to approve the recommendation and Kylar Clifton seconded.

The motion was unanimously approved.

The Vote: Yes: 13 No: 0

ITEM No. 6 - RECOMMENDATION - Transportation Master Plan Final Draft

Candace Mastel presented the recommendation to approve the final draft of the Transportation Master Plan. Mastel noted that the planning team for the TMP have reached out twice over the last year to each of the following groups, plus hosted a public campus meeting: Faculty Senate, Staff Senate, Associated Students of MSU, Parking Transportation Advisory Committee, Campus Sustainability Advisory Council, and Presidents Executive Council. The information in the TMP has also been shared with the Bozeman Area Bicycle Advisory Board and the planning team for the City of Bozeman's TMP.

Mastel recapped the Goals for the TMP plan:

- 1. Enhance mobility for MSU's employees, faculty, students, and visitors.
- 2. Protect existing parking facility investments, and identify future parking needs and locations based on projected demands.
- 3. Improve multi-modal connectivity between the campus and off-campus destinations.
- 4. Reduce the number of single occupant vehicles on and around campus.

The TMP concentrates on three major planning areas in terms of recommendations, these being Transportation Recommendations, Parking Concepts and TDM (*Transportation Demand Management*) Strategies. The gist of the recommendations occurs in Chapter 6. The overarching philosophy is to recognize the campus user base, prepare for future conditions and offer choices in transportation to all users using all modes. Mastel noted that the City of Bozeman's Transportation Plan is in sync with MSU's TMP and is currently active.

David Kack approved the recommendation and Leslie Schmidt seconded.

The motion was unanimously approved.

The Vote: Yes: 13 No: 0

<u>ITEM No. 7 – RECOMMENDATION</u> – Garage Art (Art Park) Next Phase

Sam J. Des Jardins presented the next phase of the garage art project. Des Jardins noted that this new project is part of the larger art installation proposed by Dean Royce Smith. At the Public Art Committee meeting on May 19th, 2017 to review the next two garage art installations.

This next installation of art will be done by Ledania, a Spray Artist from Bogotá, Columbia. Ledania's plan is to do a wraparound graffiti that would flow along four sides of the garage's second floor. The general theme is people, flora and fauna of the Americas, taking traditional outfits and dress, textile patterns, indigenous peoples, animals, and landscape features and creating a mural that will represent shared histories, experiences and futures. There would be minimal impact to parking by blocking off small sections of the parking garage, one at a time.

Marina Zumi, who did the first installation of art in April 2017, will return to MSU to do the third installation of art. This will involve painting the machine room structure in the northeast corner of the garage on the first floor. Using a honeycomb pattern that Marina executed in Holland in another project, she will draw attention artistically to MSU's research with bees and pollination and create a visually captivating work that will transform the structure's grey exterior into a cornucopia of color.

There was discussion about how to incorporate parking space signage with the art installations. Banziger noted that this discussion be resolved outside of UFPB – possibly with the Public Art Committee, Dean Smith and Parking Services.

Kylar Clifton motioned to approve the recommendation and David Kack seconded.

The motion was approved.

The Vote: Yes: 12 No: 0 Abstained: 1

ITEM No. 8 - RECOMMENDATION - Bobcat Sculpture Installation

Madi Graff presented that on June 5th, 2017 the Public Art Committee (PAC) reviewed and approved the sculpture and the selected location for installation for the new Bobcat Sculpture, donated by the Daws and Weedin families. The installation will occur this summer and the dedication could occur at or before the first football game of the season.

Graff noted the sculpture is fabricated out of bronze and measures approximately 4.5-feet tall and 4-feet from whiskers to tail. The donor would like to see it mounted on a 3-foot high base. There was discussion of concern for the safety of the statue with kids jumping on it.

Graff noted that the desired location for the Bobcat Statue is on the patch of grass located on the south-west side of the stadium near the entrance from the premiere tail-gating area. The site has been selected based on the donor preferences and those of the Athletics Department.

Tom Stump approved the recommendation and David Kack seconded.

The motion was unanimously approved.

The Vote: Yes: 13 No: 0

<u>ITEM No. 9 – INFORMATIONAL</u> – Montana Hall Stair and Corridor Remodel

Walt Banziger informed UFPB that as part of the preparations for the 125th anniversary celebration, the Office of the President requested specific improvements for the west stairwell, the north stair space and the public hallways on the main and second floors. The intent is to recapture a historically-sympathetic appearance for the areas in this iconic building, which that will host anniversary ceremonies. The project will include new wall-mounted handrails; new exterior bronze handrails; new finishes including carpet and paint; replacement doors to the west stairwell; and historic-style pendant lighting fixtures. Work will be reviewed by the State Historic Preservation Officer for compliance with the guidelines for historically significant structures.

Banziger noted that as some portions of the work are not clearly defined at this point (*carpet and lighting fixtures*) this is just an informational item for feedback. There were no comments or questions about this project.

This meeting was adjourned at 4:30.

CM:aw

PC:

President Cruzado Amber Vestal, President's Office Maggie Hammett, President's Office

Julie Heard, Provost's Office ASMSU President Pam Schulz, VP Admin & Finance Heidi Gagnon, VP Admin & Finance Jennifer Joyce, VP Student Success Leslie Schmidt, Asst. VP Research Office Tony Campeau, Registrar Robert Putzke, MSU Police Becky McMillan, Auxiliaries Services Julie Kipfer, Communications Jody Barney, College of Agriculture Susan Fraser, College of Agriculture

Robin Happel, College of Agriculture JoDee Palin, College of Arts & Arch Candace Mastel, Campus PDC



ITEM # 4

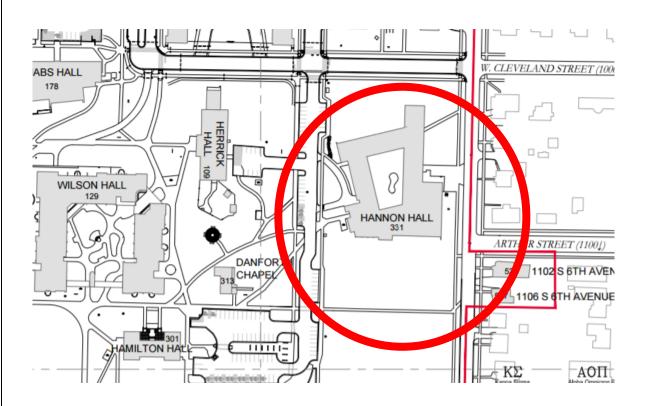
Hannon Hall Culinary Program Sidewalk

PRESENTERS:

Bill Mackin, Campus Planning Design & Construction

PROJECT	PLANNING	SCHEMATIC	DES	SIGN	CONSTRUCTION	X
PHASE:			DOG	CUMENTS	DOCUMENTS	

VICINITY MAP:



STAFF COMMENTS:

Until recently, Hannon Residence Hall had an attached dining room that served Hannon residents, guests and the public. The dining room and kitchen located on the south and east side of the building were taken out of service Spring 2017. Current plans call for the dining and kitchen area to be converted to an academic culinary program administered by Gallatin College.

It is necessary to provide a separation between the academic students and the residents of Hannon Hall. The academic program must have a dedicated entrance separate from the residence hall.

Currently, there is a set of double doors on the south side of the dining hall that would provide the desired entrance for this academic program – there is no sidewalk to this door however. The goal is to extend a new sidewalk 150 feet to the south of the existing east-west intersecting sidewalk. There is also a popular pedestrian 'cow path' that cuts diagonal through this same area.

The selected site for this new sidewalk is located on a part of campus that is currently reserved for the Native American Student Center (NASC). In 2005 students worked with President Gamble and determined the site for the Native American Student Center to be the space south of Hannon Hall. This site was reserved for five years and renewed in 2011 till November 2016.

When NASC is constructed the entire area will likely receive a new landscape sidewalk plan and the proposed sidewalk could remain or be relocated to meet the design of NASC.

COMPLIANCE:	YES	NO
MSU POLICIES	X	
COMMITTEE OR APPROPRIATE REVIEW	X	
MASTER PLAN	X	
BOARD ACTION REQUIRED:		
Approve the installation of a new sidewalk for access to the Ha	nnon Culinary pi	rogram.

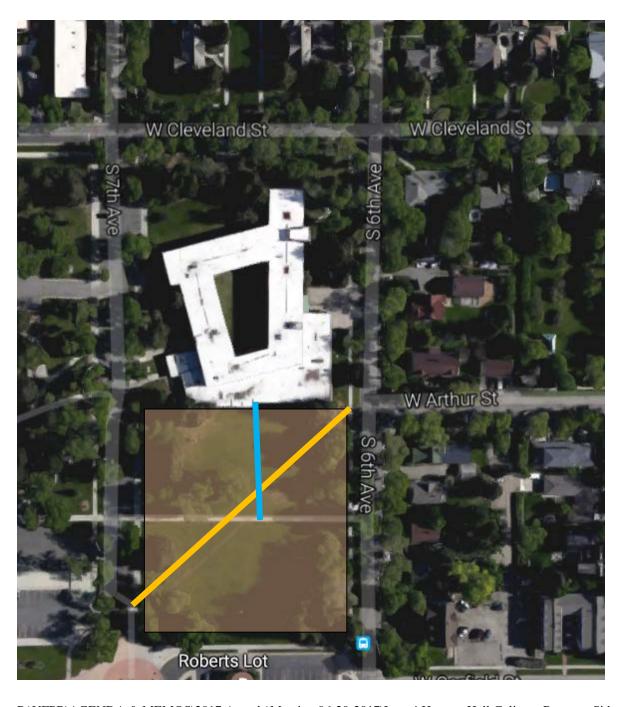
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Below is Hannon Hall shown with the pedestrian cow path crossing the proposed site.

= Current cow path

= Proposed sidewalk

= Native American Student Center Reserved Land





ITEM # 5	Recycling Signage
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PRESENTERS:

EJ Hook Environmental Services Manager and Logun Norris, Recycling Coordinator

PROJECT	PLANNING	X	SCHEMATIC	DESIGN	CONSTRUCTION	
PHASE:				DOCUMENTS	DOCUMENTS	

VICINITY MAP:

These signs will be placed on bins that are located in all of the Academic Buildings across campus along with the Strand Union Building and the Fitness Center.

STAFF COMMENTS:

MSU has had the same recycling signs since 2009, when the recycling program was started. The current signs are outdated with changes we have made over the years:

- Changed the types of plastic we accept
- Combined our paper streams
- Now have cardboard and landfill signage

Another benefit of installing new signs is hopefully a reduction in contamination rates.

The proposed signs (*see attachment*) will be in all academic buildings across campus as well as the SUB and Fitness Center. All locations will be seen by many students and visitors to MSU. We would like UFPB to consider our current signage and determine if this new signage will cause any problems or eyesores for the University.

COMPLIANCE:	YES	NO
MSU POLICIES	X	
COMMITTEE OR APPROPRIATE REVIEW	X	
MASTER PLAN	X	
DOADD ACTION DECLIDED.		

BOARD ACTION REQUIRED:

Approve the recommended recycling signage as shown.

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16"x6"

















8.5"x11"











3.75"x3.75"



CANS





REDUCE CONTAMINATION













PAPER







OFFICE PAPER (EXAMS•HOMEWORK•MAIL)

NEWSPAPER

MAGAZINES & CATALOGS



REDUCE CONTAMINATION









NO CARDBOARD

NO NEON PAPER









CARDBOARD







CARDBOARD

PAPERBOARD

BROWN PAPER



MATERIAL PROPERTY OF THE PROP

























BOTTLES

REDUCE CONTAMINATION







NO FILM PLASTICS



NO PAPER CUPS



NO STYROFOAM











PAPER CUPS



GLASS



FOOD



FILM PLASTICS



STYROFOAM



NO RECYCLABLES









ITEM #6 Reid Hall Installation of Pow Wow Posters

PRESENTERS:

Walt Banziger, Director of CPDC

PROJECT P	LANNING X	SCHEMATIC	DESIGN	CONSTRUCTION
PHASE:			DOCUMENTS	DOCUMENTS

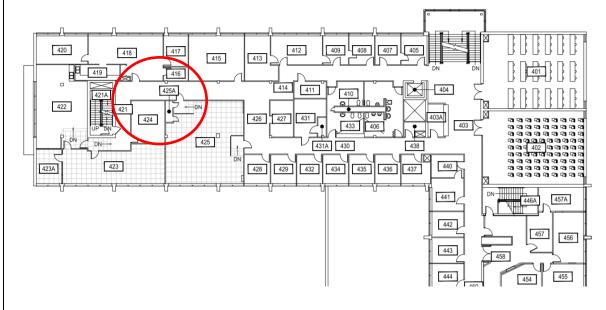
VICINITY MAP:



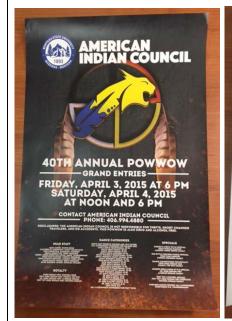
STAFF COMMENTS:

The College of Education, Health and Human Development has requested permission to hang nine posters representing the annual Montana State University Pow Wow from the years 2008 through 2016 on the 4th floor of Reid Hall. The posters would be on the corridor walls adjacent to the Center for Bilingual Multicultural Education (*Reid Hall 417*). Campus Planning, Design & Construction supports this request.

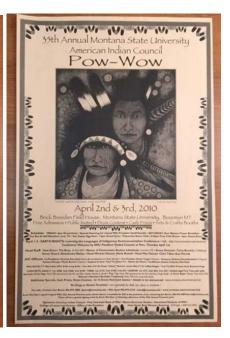
The location on the 4th floor the posters will be installed:



Three of the nine posters (to show you examples):







How the posters will look:



	YES	NO
MSU POLICIES	X	
COMMITTEE OR APPROPRIATE REVIEW	X	
MASTER PLAN	X	

BOARD ACTION REQUIRED:

Recommend the installation of nine pow wow posters on the 4th floor of Reid Hall.



ITEM #8

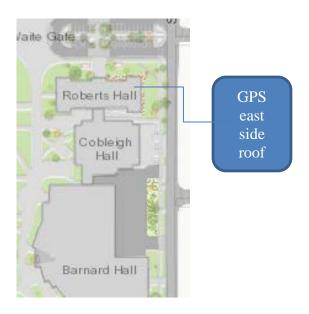
Earth Sciences – USGS Seismic Equipment GPS

PRESENTERS:

Candace Mastel, Assistant University Planner

PROJECT	PLANNING	SCHEMATIC	X	DESIGN	CONSTRUCTION	
PHASE:				DOCUMENTS	DOCUMENTS	

VICINITY MAP:



STAFF COMMENTS:

University Information Technology and Facilities Services received a request from Dave Lageson, Earth Sciences and Jim Smith, USGS to mount a GPS antenna to the roof of Roberts Hall. It would be cabled to the basement of Roberts where existing seismic equipment is located. The USGS recently upgraded their system for measuring earthquakes that requires a GPS to have a clear view of the sky.

The GPS is attached to a small mast bracket and has LMR-400 cable extended from the GPS on the east side roof to the basement equipment. The GPS is not visible from the ground; can be seen from the upper floors of Cobleigh Hall. There are no frequency interference issues.



See the attached Data Sheet for the Bullet III GPS Antenna. Antenna and cable will be installed by Facilities Services and UIT staff. It will be mounted just to the left on the main roof.

	YES	NO
MSU POLICIES	X	
COMMITTEE OR APPROPRIATE REVIEW	X	
MASTER PLAN	X	

BOARD ACTION REQUIRED:

Approve installation of GPS Antenna as proposed, on the roof of Roberts Hall.

Data Sheet



Bullet™ III GPS Antenna

KEY FEATURES

- · Weatherproof housing
- Extended temperature range (-40°C / +90°C)
- Proven extra rugged, reliable
- Available in 3.3V (TNC) or 5V (TNC or F)
- RoHS-II Compliant

Bullet™ III GPS L1 Band Antenna

Whatever the environment—the Trimble® Bullet™ III GPS antenna will perform, year after year. The Bullet III antenna provides a perfect solution for manufacturers who need a fixed-site, rooftop GPS antenna.

This antenna is also a high-quality solution for adding GPS RF signals for marine GPS navigation systems.

Put it anywhere

The antenna is housed in weatherproof packaging designed to withstand exposure to shock, vibration, extreme temperatures, rain, snow and sunlight

The dome is all plastic, and the threaded socket in the base of the antenna. The socket accepts either a 1"-14" straight threat (typical marine antenna mount) or a 3/4" pipe thread.

The F-type or TNC antenna connector is located inside the threaded socket, which allows the antenna cable to be routed inside a mounting pole and protects the cable connection.

Strong Performance

The Bullet III antenna is an active GPS L1 band antenna with 5V DC and 3.3V DC options. The high gain preamp allows the Bullet III antenna to be used with up to 75 feet of RG-59 cable



Proven Reliability

For over 25 years, Trimble has sold GNSS antennas renowned for their survivability in tough environments. The Bullet III GPS antenna is the fourth generation of the proven Bullet antenna family and offers all the reliability and performance benefits that are required for mission critical installations.

In unforgiving environments, an antenna failure could be disastrous. Don't risk it. Select a proven GNSS antenna – the Trimble Bullet III GPS antenna.



Bullet™ III GPS Antenna

ENVIRONMENTAL SPECIFIATIONS

Operating Temperature	40°C to +90°C
	40°C to +90°C
Vibration	10 – 200 Hz Log sweep
3g	(Sweep time 30 minutes) 3 axes
Shock	50g vertical, 30g all axes
Humidity Soak	+60°C @ 95% RH, 96 hours
	5% Salt spray tested, 96 hours

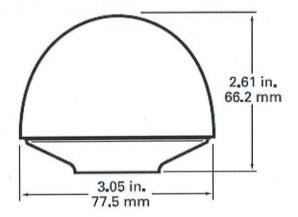
PHYISCAL CHARCTERISTICS - 3.3V & 5V DC ANTENNAS

Dimensions	3.05"D x 2.61" H (77.5mm x 66.2mm)
Weight	7.0oz (200grams)
	Off-white plastic
Connector	F-type & TNC (5V) - TNC (3.3V only)
Mounting	1" – 14" thread or ¾" pipe thread

TECHNICAL / PERFORMANCE SPECIFICATIONS

Feature	3.3V	5.0V			
Prime Power	3.3V DV (±10%)	5.0V DV (±10%			
Power Consumption	<20mA	<30mA			
Gain	28dB ± 3dB	30dB ± 3dB			
Output Impedance		50Ω			
Frequency	GPS L1 1575.4	2 ±1.023MHz			
VSWR	2.0	maximum			
Axial ratio	90°: 4 dB maximum; 10°: 6 dB maximum				
Noise	3.0dB (typical)				
Bandwidth (10dB RL)	501	50 MHz (min)			
Out of Band rejection	fo= 1575.42MHz fo ±20 MHz: 7 dB min fo ±30 MHz: 12 dB min fo ±50 MHz: 20 dB min fo ±100MHz: 30dB min				
Azimuth coverage	360° (on	nni-directional)			
Elevation coverage	0°-90° elevation (hemispherical)	0°-90° elevation (hemispherical)			
ESD	IEC	61000-4-2			

MECHANICAL



CONNECTORS





GENERAL INFORMATION & ACCESSORIES

Please go to <u>www.trimble.com/timing</u> for the latest documentation and tools, part numbers and ordering information.

NORTH AMERICA Trimble Navigation Limited Corporate Headquarters 935 Stewart Drive Sunnyvale, CA 94085

Phone: +1 703 237 7400 timing@trimble.com UROPE

Trimble Navigation Europe Phone: +4670-544-1020 KOREA

Trimble Export Ltd. Korea Phone: +82-2-555-5361 CHINA

Trimble Navigation Ltd. China Phone: +86-10-8857-7575





ITEM #9

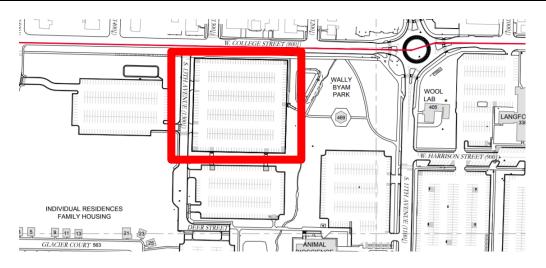
Residence Hall Site Location

PRESENTERS:

Darryl Curfman, Project Manager

PROJECT	PLANNING	X	SCHEMATIC	DESIGN	CONSTRUCTION	
PHASE:				DOCUMENTS	DOCUMENTS	

VICINITY MAP:



STAFF COMMENTS:

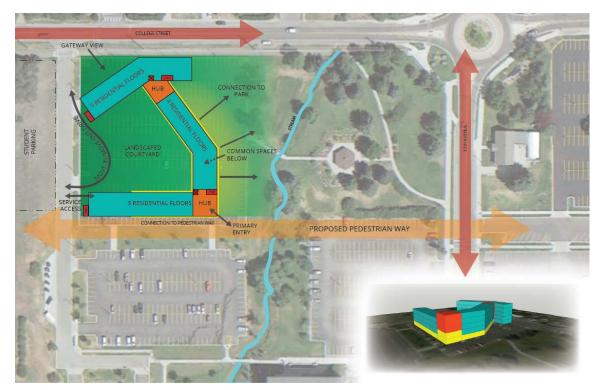
Montana State University has seen an increased enrollment and has identified a need to increase its total number of beds, as such MSU is pursuing building a New Residence Hall for incoming freshmen. The Residence Hall needs to be in proximity to the New Dining Hall and is desired to be near the core of campus. It is also expected to be a multi-story building with connecting communal areas and student study/collision space. After studying multiple sites including renovating Johnstone Center, CPDC received direction from President Cruzado to move forward with the above site, west of Wally Byam Park along College. The direction from the President includes being as efficient with the site utilization and parking displacement as possible.

	YES	NO
MSU POLICIES	X	
COMMITTEE OR APPROPRIATE REVIEW	X	
MASTER PLAN	X	

BOARD ACTION REQUIRED:

For UFPB Information and feedback only.

Below are representational building configurations of the New Residence Hall. **These are not the actual building configurations.**

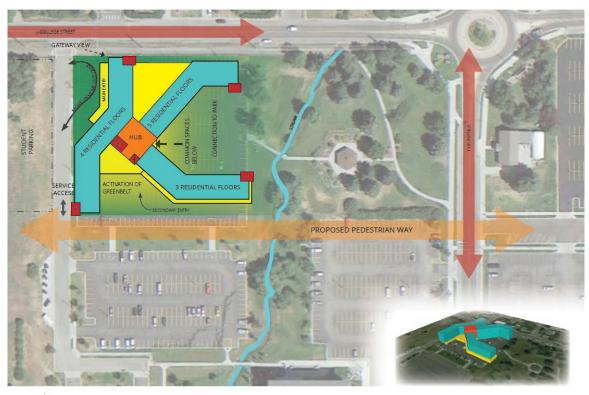


















NEW RESIDENCE HALL SCHEMATIC DEVELOPMENT - OPTION 7

JUNE 2017