



Committee on Administration, Buildings and Grounds

Board of Visitors
November 17, 2022

**I.
Kaplan
Financing
Authorization
(Action)**

**II.
Kaplan Debt
Reimbursement
(Action)**

**III.
Housing &
Dining Phase I
(Information)**

Evolve to Excel: Optimize places, workflows and systems

- Modernize our campus — dining, dorms, classrooms and other learning spaces — so that students, faculty and staff thrive
- Attract and retain outstanding employees and students to further our mission
- Create a financial model that ensures an exceptional W&M experience



I. Kaplan Debt Authorization

Athletics Complex: New Sports Performance Complex



- The Athletics Complex project includes a renovation of Kaplan Arena and construction of a new sports performance complex.
- The 36,000 sq ft, multi-use complex includes:
 - a high-performance strength and conditioning area,
 - sports medicine space,
 - a new practice area for volleyball and basketball, and
 - Enhanced completion space.

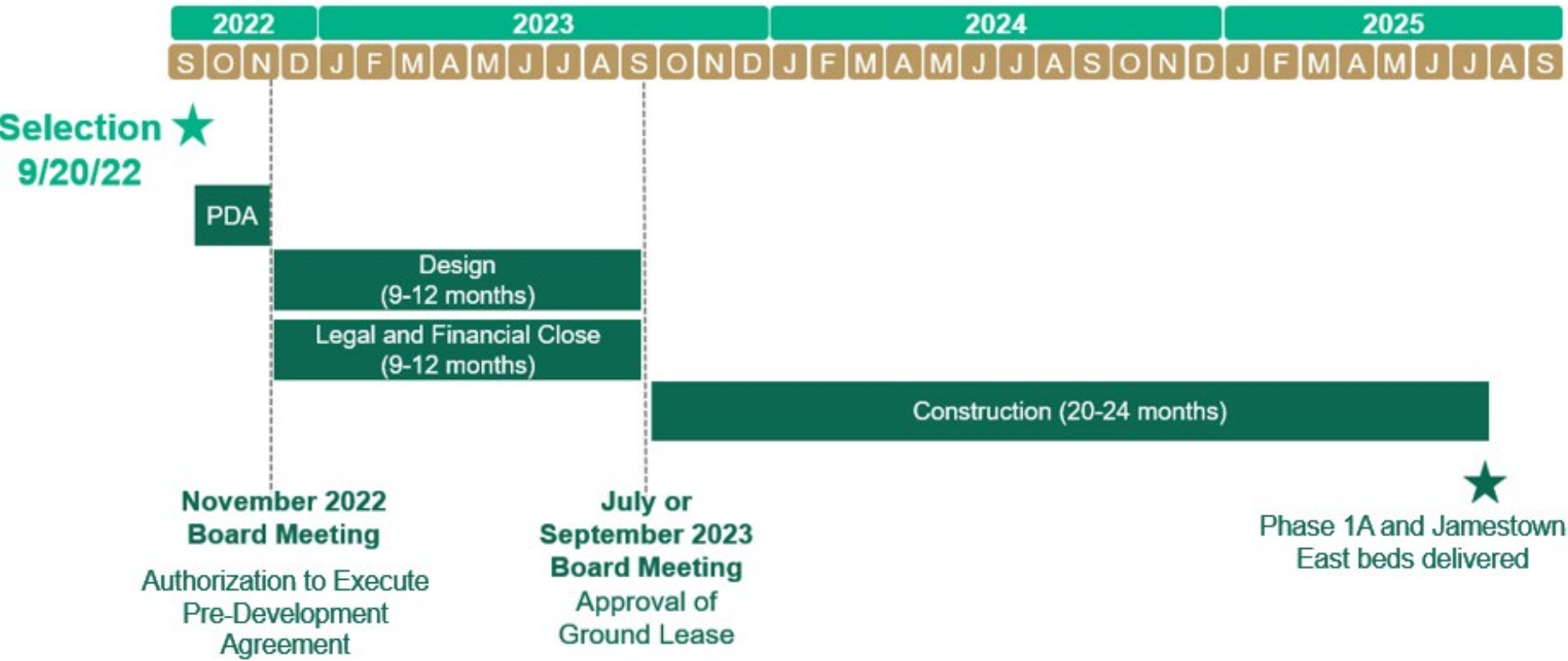
Resolutions 8 and 9: Debt Authorization & Reimbursement

- Financing Authorization Resolution 8 allows W&M to participate in a bond financing through the state for up to \$25M as needed for renovations to Kaplan Arena and construction of the Sports Performance Complex.
- Reimbursement Authorization Resolution 9 allows W&M to be reimbursed with the bond proceeds for project-related expenses incurred prior to the sale.



III. Housing & Dining Update

Next Steps: Jamestown East and West Campus, Phase 1



West Campus Site Plan – Phase 1a and 1b



KAPLAN ARENA

YATES DR

COMMUNITY BUILDING

1A

BUILDING #1

GOOCH DR

COMMONS DINING

UKROP WAY

BUILDING #2

VILLAGE WALK

BUILDING #4

WEST WOODS

KING CENTER

WEST WOODS QUAD

WEST WOODS DINING

WILLIAM & MARY

WILLIAM & MARY

1B

STUDENT LIFE WALK

SADLER CENTER

RANDOLPH

BUILDING #3

PEDESTRIAN BRIDGE

MCLEOD TYLER WELLNESS CENTER

BOTETOURT

LANDRUM DR

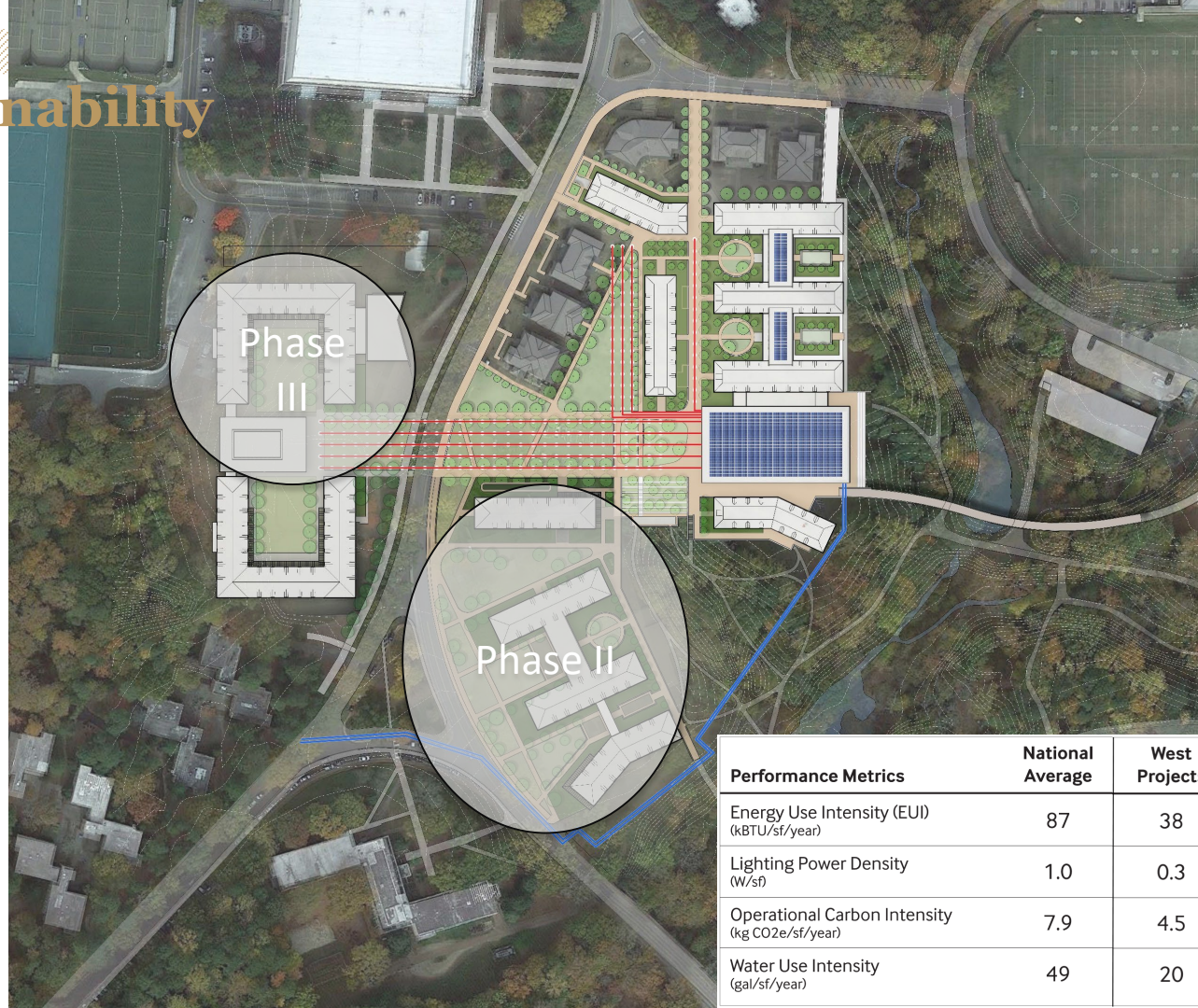
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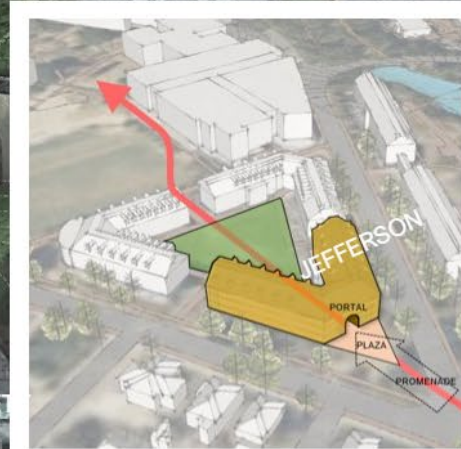
West Campus Sustainability

- Solar ready on dining and accessible flat roofs
- Geothermal Wellfield to central plant in Dining. Geothermal water loop delivered to all new dorms
- All electric Geothermal heating for all buildings
- Geothermal and electric domestic water heating
- All lighting to LED with goal of 0.3 W/sf
- Dedicated outdoor air systems heat pump with energy recovery in each residence building
- Geothermal conditioning heat pumps
- Occupancy Controls



Performance Metrics	National Average	West Project
Energy Use Intensity (EUI) (kBtu/sf/year)	87	38
Lighting Power Density (W/sf)	1.0	0.3
Operational Carbon Intensity (kg CO2e/sf/year)	7.9	4.5
Water Use Intensity (gal/sf/year)	49	20

Jamestown East Site Plan



Portal



Porosity



Jamestown East Sustainability

- Geothermal Wellfield to central plant in the Hardy basement
- Cooling for existing buildings remain on central plant with supplemental cooling from wellfield
- Replace natural gas fired boilers with geothermal heating for all buildings (all electric)
- Replace domestic water heat exchangers with geothermal and electric domestic water heating
- LED lighting to with goal of 0.3 W/SF
- Replace ventilation and exhaust fans in Hardy with Energy Recovery Unit
- All HVAC at the new LH building serviced from the wellfield to heat pumps and dedicated outdoor air systems
- Occupancy Controls



Performance Metrics	National Average	Lemon - Hardy (All 3 Bldgs)
Energy Use Intensity (EUI) (kBTU/sf/year)	87	55
Lighting Power Density (W/sf)	1.0	0.3
Operational Carbon Intensity (kg CO2e/sf/year)	7.9	6.5
Water Use Intensity (gal/sf/year)	49	21



Questions and Discussion