

FY2018 Capital Budget and Bond Resolution

BACKGROUND

At its March 2017 meeting, the Finance & Administration Committee reviewed and recommended Board approval of the FY2018 Capital Budget. The Board did not act on this recommendation due to disruptions at its meeting. Two additional projects are included in this iteration of the capital budget request. This docket provides an overview of all the projects, the impact of the additional debt on the debt policy ratios, and the bond resolution to issue \$74,675,000 in OSU revenue bonds to fund a portion of the capital projects.

CAPITAL BUDGET REQUEST

The FY2018 Capital Budget request includes the following projects. This capital budget request is consistent with the Board approved 2017-19 Integrative Capital Plan request submitted to the Higher Education Coordinating Commission, 10-year Business Forecast, and Debt Policy. The project costs do not substantively change the forecasted debt policy ratios presented to the Board in January 2017.

Location, fund type, and project <small>*Projects that the Finance & Administration Committee recommended for Board approval at the March 2017 meeting.</small>	Total (\$M)	State- paid bonds (\$M)	OSU- paid bonds (\$M)	Gift funds (\$M)	OSU funds (\$M)
OSU Corvallis					
E&G					
Gilkey Hall Renovation – Undergraduate and International Studies*	\$5.00	\$3.00	\$2.00	\$0	\$0
Steam Line Replacement and Tunnel Extension*	7.80	0	7.80	0	0
Minor Capital Programmatic Improvements (Snell Hall/Research Way Building)*	5.30	0	5.30	0	0
Magruder Expansion (Supplement)	3.00	0	0	0	3.00
Oregon Quality Food and Beverages Center*	18.00	9.00	0	9.00	0
Subtotal E&G	\$39.10	\$12.00	\$15.10	\$9.00	\$3.00
Auxiliaries – Housing and Dining					
Upper Division and Graduate Housing*	\$30.00	\$0	\$30.00	\$0	\$0
Newport Housing	27.18	0	27.18	0	0
Subtotal Auxiliaries	\$57.18	\$0	\$57.18	\$0	\$0
Total OSU capital budget request	\$96.28	\$12.00	\$72.28	\$9.00	\$3.00

CAPITAL PROJECTS

Gilkey Hall Renovation (\$5.0M: \$3.0M State-paid bonds, \$2.0M OSU revenue bonds)

The renovation of Gilkey Hall will provide an interior space renewal and re-organization to accommodate the divisions of Undergraduate Studies and International Programs, substantially improving student experiences and enhancing student success at OSU. The renovation will:

- Strengthen collaboration for academic advising between Undergraduate Studies and International Programs;
- Provide centralized writing and computing labs and other academic assets for students;
- Modernize fire and life safety, plumbing, electrical and mechanical systems; and
- Preserve the building's historic exterior, creating modern, healthy, accessible space for OSU students and staff, as well as addressing critical deferred maintenance needs.

The Governor's Recommended Budget ranked the Gilkey Hall renovation as the third of 14 projects to receive state-paid bonds (\$2.0M Article XI-G, \$1.0M Article XI-Q). The university will not proceed with the Gilkey Hall renovation without state-paid bonds.

Project Approval – The Finance & Administration Committee reviewed the project *pro forma* (Table 1) during the March 16, 2017 meeting.

Financial Impacts – This project is not expected to generate additional revenues or operating expenses but will add \$200,000 of depreciation expense annually. The debt service on the loan from the Internal Bank to the Education & General Fund (E&G) will be approximately \$240,000 per year for the next 10 years. The debt service and the increased depreciation expense will be reflected in the E&G budget for future years.

Steam Line Replacement and Tunnel Extension (\$7.8M OSU revenue bonds)

This project will deliver looped and redundant heating steam from the Energy Center to the campus steam distribution system. Currently, the sole pipe distributing heating steam from the Energy Center to the campus distribution system is a direct buried (double wall) pipe that is deteriorating, leaking, and exposing the inner pipe to ground water. The project extends the utility tunnel system between 30th and 35th Streets, along the north side of Jefferson Way, and replaces the existing deteriorating pipe with a redundant pair of pipes that will be accessible within the new tunnel. The new utility tunnel and redundant pair of steam lines will:

- Provide steam distribution redundancy for reliability, repair, and maintenance; and
- Make the critical steam distribution connection from the Energy Center to the campus accessible for inspection, maintenance, and repair.

Project Approval – The Finance & Administration Committee reviewed the project *pro forma* (Table 2) during the March 16, 2017 meeting.

Financial Impacts – The facility is not expected to generate incremental revenues and it will increase depreciation by approximately \$390,000 per year and maintenance costs by approximately \$10,000 per year. The debt service on the loan from the Internal Bank to the E&G Fund will be approximately \$938,000 per year for the next 10 years. The debt service and the increased depreciation will be included in the E&G budget for future years.

Minor Capital Programmatic Improvement (\$5.3M OSU revenue bonds)

This project will renovate the low-rise section of Snell Hall for the revised 2D art program

(\$1.7M) and the Research Way facilities (\$3.6M) to create a National Science Foundation-funded international OSU Marine and Geology Repository.

Project Approval – The Finance & Administration Committee reviewed the project *pro forma* (Table 3) during the March 16, 2017 meeting.

Financial Impacts – This investment will stabilize the art curriculum and enable an increase in student enrollment. The Research Way building repository will set us apart from our peers, create additional opportunities for federal grants, and increase facilities and administrative (F&A) cost recovery.

This project will add \$212,000 of depreciation expense. The debt service on the loan from the Internal Bank to the E&G Fund will be approximately \$637,000 per year for the next 10 years. The debt service and depreciation will be included in the E&G budget for future years.

Oregon Quality Foods and Beverages Center (\$18.0M: State-paid bonds \$9.0M, gift funds \$9.0M)

The Oregon Quality Foods and Beverages Center will create three research and learning pilot facilities for Brewing Science, Wine Science, and Dairy Science. The finished facility will house pilot production plants, open laboratory space, and a distance education classroom, as well as administrative and retail spaces, and storage. This project will:

- Generate new high-quality food and beverage products, efficient production methods, and innovative product development to expand the market value of Oregon foods and beverages;
- Connect communities across the state with opportunities to add value to food and beverage products and increase sustainable entrepreneurship in both rural and urban communities;
- Develop creative solutions to food production, processing, and distribution; and
- Assess the impacts on the health of the environment, economy, and communities.

The Governor's Recommended Budget ranked this project as fourth of 14 for state-paid bond funding (\$9.0M Article XI-G). The university will not proceed with the Oregon Quality Food and Beverages Center without state-paid bonds.

Magruder Hall Teaching Hospital and Classroom Expansion (\$3.0M OSU funds) (New)

The College of Veterinary Medicine is currently investing \$10M into expanding Magruder Hall to increase clinical space for increased case load and specialty offerings (including radiation oncology, emergency service, oncology clinical trials, etc.). To help fund the additional personnel needed, the class size has been increased to generate additional tuition dollars. The current Magruder facilities were built for a maximum of 56 students. Seventy-two students have been admitted to the Class of 2021, and the college will continue to admit 72 students per year. Since the project began, the scope was further refined to better achieve the intended experiential learning opportunities for the students. The expansion project includes a large classroom that can accommodate up to 100 students, to allow for future growth. To maximize the construction investment, the college seeks to add a classroom space to accommodate experiential learning including hands-on surgery, teaching of clinical skills, and appropriate space for a number of crucial elective classes.

This project was originally approved by the Board as part of the FY2017 Capital Plan Amendment request at the October 2016 board meeting. Since that time, construction costs have risen significantly, and there is no evidence that this trend will reverse soon. In anticipation of this cost escalation, the project has been scaled back and the design phase includes options for shelling out

space that could be completed in the future. This would provide important economies of scale and effort.

This request is to increase the funding from the Internal Bank by an additional \$3.0M. Once design plans are completed, the college will continue an aggressive campaign for donors to help fund the expansion. The expectation of a successful campaign is that funds borrowed could be paid back ahead of schedule.

Financial Impacts – A *pro forma* with the additional \$3.0M is provided in Table 4. This incremental addition has no impact on the funding for strategic investments in the capital forecast.

Upper Division & Graduate Student Housing (\$30.0M OSU revenue bonds)

This project will expand programming and address an on-campus housing need for underserved populations of graduate, transfer, and non-traditional students. It also responds to the request by the Corvallis community for the university to provide additional on-campus housing. This new development, planned on the OSU Corvallis campus on a parcel located near 11th Street and Madison Avenue, will:

- Provide 150-250 units, with a goal of providing 200-400 additional beds to the University Housing and Dining Services (UHDS) Corvallis housing inventory;
- Offer a mix of studio and multi-bedroom apartments configured for single student occupancy by the bedroom, and occupancy by students with partners and/or dependents who will contract by apartment unit; and
- Provide on-site parking and other communal amenities.

Project Approval – The Finance & Administration Committee reviewed the project *pro forma* (Table 5) during the March 16, 2017 meeting.

Financial Impacts – This project will generate housing revenues of approximately \$2.7M in the second full year of operations (FY2021) and is projected to grow by 3.0% per year thereafter. The project will cause operating expenses to increase \$1.5M in the first full year of operations (FY2020) which is projected to grow by approximately 1.6% per year. The debt service on this portion of the bonds, which will be loaned to the UHDS unit by the Internal Bank, will be approximately \$1.9M per year for the next 30 years. This project will add \$706,800 annually of depreciation expense. The debt service, revenue, and operating cost have been included in the UHDS budget for future years.

Newport Housing (\$27.18M OSU revenue bonds) (New)

The Marine Studies Initiative, a major strategic action by OSU, is pioneering a new teaching, research, outreach, and engagement model to help sustain healthy oceans and all who depend on them. Additionally, OSU has made the commitment that “housing to accommodate Oregon State students at the campus will be located near Oregon Coast Community College and built safely out of the tsunami zone, which will reduce safety risks substantially.” To that end, OSU intends to construct 130 units of multi-family style housing, having approximately 180 bedrooms and 180 parking spaces. This project will accommodate primarily single junior, senior, and graduate students, as well as potentially students with dependents and relocating faculty and OSU staff. OSU has committed to the developer to build to the LEED Silver standard.

The site is located in the Wilder development in Newport, Oregon and consists of approximately five buildable acres, as well as land that will be deeded to the City of Newport for a public access trail. There is a small wetland located on the site that OSU is planning to mitigate, and OSU has already begun the assessment and permitting process for mitigation independent of the design process. Design and construction of the trail is a component of this project, and will be done in collaboration

with the City of Newport, and to their standards.

Financial Impacts – The *pro forma* is in Table 6. The E&G Fund is making a commitment of about \$0.65M of revenue per year to offset the depreciation expense. While this project is not anticipated to be as immediately self-sustaining as other OSU housing projects (due largely to the less certain and shorter-duration student housing demand of HMSC/MSI), the annual E&G commitment will help the project to self-sustainability, will help offset the early-year negative cash flows, and will underpin the critical strategic importance of and safety commitments to the Marine Studies Initiative. The debt service on this portion of the bonds, which will be loaned to the UHDS unit by the Internal Bank, averages approximately \$1.9M per year for the next 30 years. The debt service, revenue, and operating costs have been included in the UHDS budget for future years.

ISSUANCE OF OSU REVENUE BONDS

There are five projects proposed to be funded with proceeds from OSU revenue bonds.

Consistent with the university's Debt Policy, the university is seeking approval of the 2017/2018 General Revenue Bond Resolution provided in Attachment 1. The resolution authorizes issuance of university revenue bonds to fund the \$72.28M in project costs noted above, approximately \$0.9M in bond issuance costs, and a potential 2% discount on the bonds of \$1.495M.

The resolution authorizes the interim vice president for finance and administration to sell and issue the bonds and to determine the method of selling the bonds. The resolution limits the approval authority delegated to the interim vice president for finance and administration to the total of \$74.647M, at a final maturity no later than April 1, 2050, and at an interest rate not to exceed 5.25%. These authorities will expire on June 30, 2018.

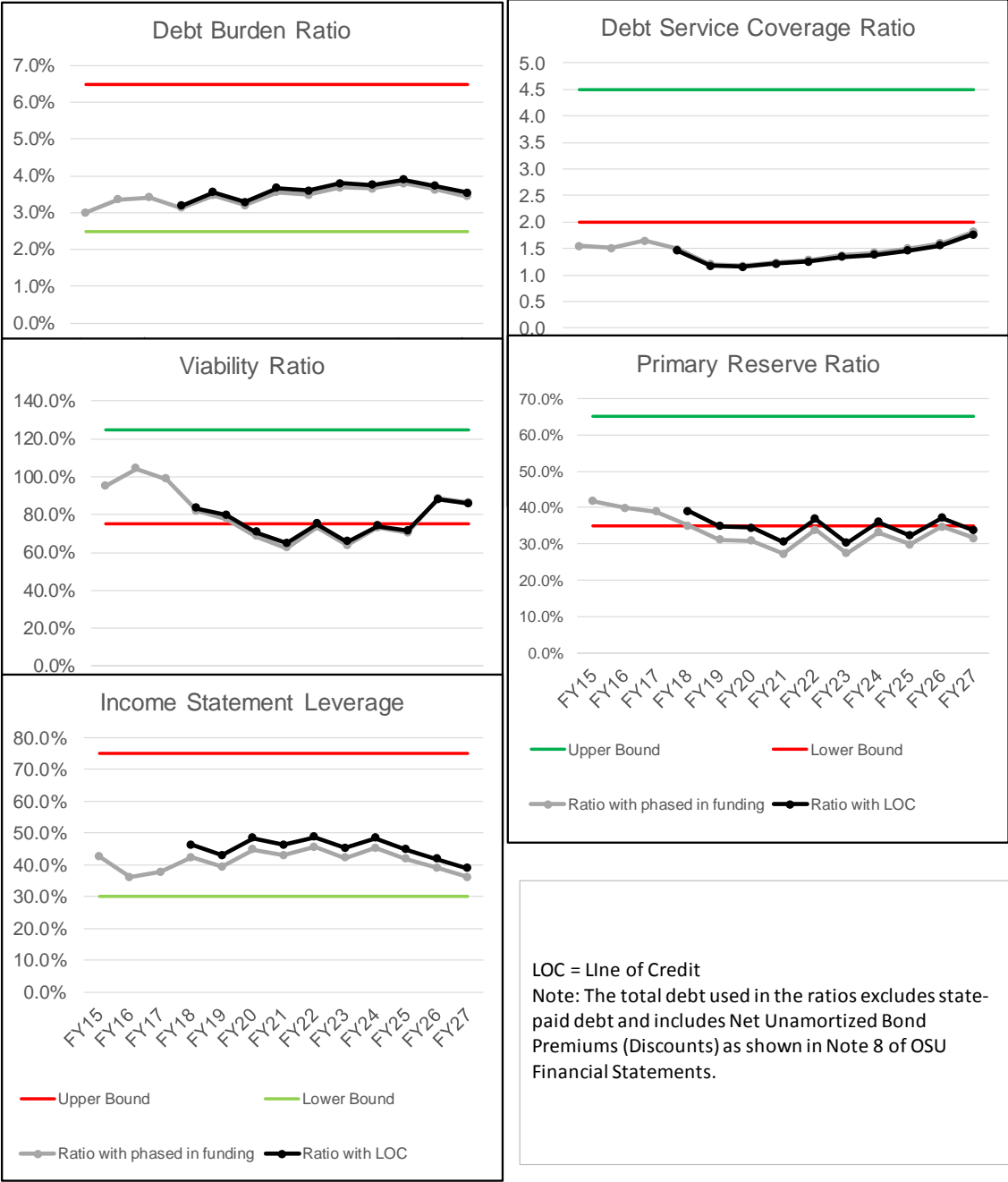
The following table summarizes the detail:

Project Name	Approvals		Total Project Cost	Revenue	Estimated Debt Service	Repayment Source
	OSU Board	Legislature		Bond Request		
Gilkey Hall Renovation	[TBD]	[TBD]	\$5,000,000	\$2,000,000	\$240,000	E&G
Steam Line Replacement and Tunnel Extension	[TBD]	N/A	7,800,000	7,800,000	938,000	E&G
Minor Capital Programmatic Improvement	[TBD]	N/A	5,300,000	5,300,000	637,000	E&G
Upper Division & Graduate Student Housing	[TBD]	N/A	30,000,000	30,000,000	1,918,000	UHDS
Newport Housing	[TBD]	N/A	<u>27,180,000</u>	<u>27,180,000</u>	<u>1,922,000</u>	E&G and UHDS
Total			<u>\$75,280,000</u>	72,280,000	<u>\$5,655,000</u>	
Reserve for Estimated Bond Costs				900,000		
Original Issue Discount (2% maximum) ⁽¹⁾				<u>1,495,000</u>		
Total Issuance				<u>\$74,675,000</u>		

(1) Tax-exempt bonds may be sold at a discount.

The university's Debt Policy requires that the impact of any university-paid debt on the five financial ratios included in the policy be reviewed prior to the issuance of university-paid debt. The impact of the issuance of these bonds is consistent with the 10-year Business and Capital Forecast that the Board approved in January. Three of the debt policy ratios remain within the targeted metric ranges. The primary reserve ratio moves in and out of range. The debt service coverage ratio is estimated to decrease to 1.5 after the issuance of the 2018 Bonds, keeping it below the targeted range. Continuous refinements and strategies are needed to reach the target debt policy ratios, and these strategies will be discussed with the Board in January 2018 with the next iteration of the

10-Year Business Forecast. The black line reflects the impact of the proposed Line of Credit (LOC), which will also be considered by the committee at the June 1 meeting.



RECOMMENDATION

Staff recommend that the Finance & Administration Committee recommend to the Board that it adopt the FY2018 Capital Budget and the Bond Resolution provided in Attachment 1.

Table 1: OSU Corvallis - Gilkey Hall *pro forma*.

OSU - Gilkey Hall Renovation											
ASSUMPTIONS											
	Amount										
Funding requested from the State (XI-Q)	\$3,000,000										
Internal Bank Loan	2,000,000										
Total Cost	\$5,000,000										
RESOURCES											
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 25
Central Funds (from existing revenues)	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$200,000
TOTAL REVENUES	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$440,483	\$200,000
EXPENSE PROJECTIONS											
Debt Service (\$2M - 10 year @ 3.5%)*	(\$240,483)	(\$240,483)	(\$240,483)	(\$240,483)	(\$240,483)	(\$240,483)	(\$240,483)	(\$240,483)	(\$240,483)	(\$240,483)	\$0
Depreciation**	(\$200,000)	(\$200,000)	(\$200,000)	(\$200,000)	(\$200,000)	(\$200,000)	(\$200,000)	(\$200,000)	(\$200,000)	(\$200,000)	(\$200,000)
TOTAL EXPENSES	(\$440,483)	(\$440,483)	(\$440,483)	(\$440,483)	(\$440,483)	(\$440,483)	(\$440,483)	(\$440,483)	(\$440,483)	(\$440,483)	(\$200,000)
ANNUAL OPERATING NET	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ACCUMULATED BALANCE		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
*Principal is included for total funding needs/projections											
**\$5M project; 25 year, straight line depreciation											

Table 2: OSU Corvallis - Steam Line Replacement and Tunnel Extension *pro forma*.

OSU - Campus Steam Line Replacement and Utility Tunnel Extension											
ASSUMPTIONS											
	Amount										
Total Cost	\$7,800,000										
RESOURCES											
	Year 1 (FY18)	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 20 (FY37)
Central Funds (from existing revenues)	\$1,338,000	\$1,338,300	\$1,338,609	\$1,338,927	\$1,339,255	\$1,339,593	\$1,339,941	\$1,340,299	\$1,340,668	\$1,341,048	\$407,535
TOTAL RESOURCES	1,338,000	\$1,338,300	\$1,338,609	\$1,338,927	\$1,339,255	\$1,339,593	\$1,339,941	\$1,340,299	\$1,340,668	\$1,341,048	\$407,535
EXPENSE PROJECTIONS											
Debt Service - (\$7.8M - 10 year @ 3.5%)	(\$938,000)	(\$938,000)	(\$938,000)	(\$938,000)	(\$938,000)	(\$938,000)	(\$938,000)	(\$938,000)	(\$938,000)	(\$938,000)	\$0
Annual repair/maintenance	(10,000)	(10,300)	(10,609)	(10,927)	(11,255)	(11,593)	(11,941)	(12,299)	(12,668)	(13,048)	(17,535)
Depreciation/Renewal Fund*	(390,000)	(390,000)	(390,000)	(390,000)	(390,000)	(390,000)	(390,000)	(390,000)	(390,000)	(390,000)	(390,000)
TOTAL EXPENSES	(\$1,338,000)	(\$1,338,300)	(\$1,338,609)	(\$1,338,927)	(\$1,339,255)	(\$1,339,593)	(\$1,339,941)	(\$1,340,299)	(\$1,340,668)	(\$1,341,048)	(\$407,535)
ANNUAL OPERATING NET	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ACCUMULATED BALANCE		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
*Principal is included for total funding needs/projections											
*\$7.8M project; 20 year, straight line depreciation											

Table 3: Minor Capital Programmatic Improvement *pro forma*.

OSU - Minor Capital Programmatic Improvement											
ASSUMPTIONS											
	Amount										
Snell Hall	\$1,700,000										
Research Way Building	3,600,000										
Total	\$5,300,000										
RESOURCES											
	Year 1 (FY18)	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 25 (FY42)
Central Funds (from existing revenues)	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$212,000
TOTAL RESOURCES	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$849,279	\$212,000
EXPENSE PROJECTIONS											
Debt Service (\$5.3M - 10 years @ 3.5%)*	(\$637,279)	(\$637,279)	(\$637,279)	(\$637,279)	(\$637,279)	(\$637,279)	(\$637,279)	(\$637,279)	(\$637,279)	(\$637,279)	(\$637,279)
Depreciation**	(\$212,000)	(\$212,000)	(\$212,000)	(\$212,000)	(\$212,000)	(\$212,000)	(\$212,000)	(\$212,000)	(\$212,000)	(\$212,000)	(\$212,000)
TOTAL EXPENSES	(\$849,279)	(\$849,279)	(\$849,279)	(\$849,279)	(\$849,279)	(\$849,279)	(\$849,279)	(\$849,279)	(\$849,279)	(\$849,279)	(\$212,000)
ANNUAL OPERATING NET	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ACCUMULATED BALANCE		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
*Principal is included for total funding needs/projections											
**\$5.3M project; 25 year, straight line depreciation											

Table 4: Magruder Hall Teaching Hospital Expansion and Classroom Expansion

OSU-Magruder Hall Teaching Hospital and Class Expansion													
ASSUMPTIONS													
	Amount	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	
Additional students (Years 1-3 of study)		16	32	48	48	48	48	48	48	48	48	48	
Additional students (Year 4 of study)					16	16	16	16	16	16	16	16	
REVENUE PROJECTIONS													
	FY 17 Rate	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	
Incremental Revenues	Base graduate tuition (3 terms)	\$21,789	\$380,951	\$784,759	\$1,212,452	\$1,248,826	\$1,286,291	\$1,324,879	\$1,364,626	\$1,405,565	\$1,447,731	\$1,491,163	\$1,535,898
	Additional Vet Med tuition (3 terms) yrs 1-3	\$21,228	371,143	764,554	1,181,235	1,216,672	1,253,173	1,290,768	1,329,491	1,369,376	1,410,457	1,452,771	1,496,354
	Additional Vet Med tuition (4 terms) yrs 4	\$21,367	0	0	0	408,213	420,459	433,073	446,065	459,447	473,231	487,428	502,051
	Caribbean students fourth year (8 per year)		377,262	388,580	388,580	0	0	0	0	0	0	0	0
	Hospital Revenue Growth due to expansion	\$7,245,000	561,777	756,227	966,833	1,200,982	1,374,734	1,486,775	1,607,947	1,738,995	1,880,723	2,034,002	2,199,773
	Other Revenues (Startup funds)		0	0	0	0	0	0	0	0	0	0	0
TOTAL REVENUES		\$1,691,133	\$2,694,119	\$3,749,101	\$4,074,693	\$4,334,657	\$4,535,496	\$4,748,129	\$4,973,383	\$5,212,142	\$5,465,364	\$5,734,076	
EXPENSE PROJECTIONS													
Education Expenses	Interest		(\$280,801)	(\$256,865)	(\$232,091)	(\$206,451)	(\$179,913)	(\$152,446)	(\$124,017)	(\$94,594)	(\$64,141)	(\$32,622)	\$0
	O&M on 9,000 gsf incremental space		(110,250)	(113,558)	(116,964)	(120,473)	(124,087)	(127,810)	(131,644)	(135,594)	(139,661)	(143,851)	(148,167)
	Faculty salary and OPE at \$160K per FTE		(393,382)	(810,366)	(1,252,016)	(1,719,435)	(1,771,018)	(1,824,149)	(1,878,873)	(1,935,240)	(1,993,297)	(2,053,096)	(2,114,689)
	Faculty startup (\$100,000 per position)		(100,000)	(206,000)	(212,180)	(218,545)	(112,551)						
	S&S per faculty (\$3,000 per position)		(6,000)	(12,360)	(19,096)	(26,225)	(27,012)	(27,823)	(28,657)	(29,517)	(30,402)	(31,315)	(32,254)
	\$1000 per student S&S		(16,000)	(32,960)	(50,923)	(52,451)	(54,024)	(55,645)	(57,315)	(59,034)	(60,805)	(62,629)	(64,508)
	40% of Base Tuition to University		(152,380)	(313,904)	(484,981)	(499,530)	(514,516)	(529,952)	(545,850)	(562,226)	(579,093)	(596,465)	(614,359)
Hospital Expenses	Staff		(92,700)	(159,135)	(229,473)	(303,887)	(382,560)	(394,037)	(405,858)	(418,034)	(430,575)	(443,492)	(456,797)
	Staff (Independent Contractor)		(12,360)	(12,731)	(13,113)	(13,506)	(13,911)	(14,329)	(14,758)	(15,201)	(15,657)	(16,127)	(16,611)
	Equipment (Service Contract LinAc)		-	(100,000)	(103,000)	(106,090)	(109,273)	(112,551)	(115,927)	(119,405)	(122,987)	(126,677)	(130,477)
	Increment in COGS		(44,906)	(50,878)	(55,902)	(61,452)	(67,587)	(73,028)	(78,907)	(85,259)	(92,122)	(99,538)	(107,550)
	Depreciation*		(260,000)	(260,000)	(260,000)	(260,000)	(260,000)	(260,000)	(260,000)	(260,000)	(260,000)	(260,000)	(260,000)
TOTAL EXPENSES		(1,468,779)	(2,328,756)	(3,029,739)	(3,588,047)	(3,616,454)	(3,571,769)	(3,641,808)	(3,714,103)	(3,788,741)	(3,865,812)	(3,945,412)	
NET REVENUE		\$222,354	\$365,363	\$719,362	\$486,646	\$718,203	\$963,727	\$1,106,322	\$1,259,280	\$1,423,401	\$1,599,552	\$1,788,664	
Accumulated Revenue Balance			\$587,717	\$1,307,078	\$1,793,724	\$2,511,927	\$3,475,654	\$4,581,976	\$5,841,256	\$7,264,657	\$8,864,209	\$10,652,872	
CASH FLOW													
Net Revenue		\$222,354	\$365,363	\$719,362	\$486,646	\$718,203	\$963,727	\$1,106,322	\$1,259,280	\$1,423,401	\$1,599,552	\$1,788,664	
Depreciation*		260,000	260,000	260,000	260,000	260,000	260,000	260,000	260,000	260,000	260,000	260,000	
Capital Expenditures		-	-	-	-	-	-	-	-	-	-	-	
Principal (Debt)		(683,881)	(707,817)	(732,591)	(758,231)	(784,769)	(812,236)	(840,665)	(870,088)	(900,541)	(932,060)	-	
Annual Cash Flow		(\$201,527)	(\$82,454)	\$246,771	(\$11,585)	\$193,434	\$411,491	\$525,657	\$649,192	\$782,860	\$927,492	\$2,048,664	
Accumulated Cash Flow			(\$283,981)	(\$37,211)	(\$48,796)	\$144,638	\$556,129	\$1,081,786	\$1,730,978	\$2,513,838	\$3,441,330	\$5,489,993	
*\$13.0M project; 50 year, straight line depreciation													

Table 5: OSU Corvallis - Upper Division & Graduate Student Housing *pro forma*.

OSU - Corvallis Upper Division & Graduate Student Housing													
ASSUMPTIONS													
		Amount											
Total cost		\$30,000,000											
REVENUE PROJECTIONS													
		Year 1 (FY20)	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10 (FY29)	Year 20 (FY39)	Year 30 (FY49)
Revenue from housing units (3 buildings)		\$1,973,700	\$2,710,548	\$2,791,864	\$2,875,620	\$2,961,889	\$3,050,746	\$3,142,268	\$3,236,536	\$3,333,632	\$3,433,641	\$4,614,527	\$6,201,538
TOTAL REVENUES		\$1,973,700	\$2,710,548	\$2,791,864	\$2,875,620	\$2,961,889	\$3,050,746	\$3,142,268	\$3,236,536	\$3,333,632	\$3,433,641	\$4,614,527	\$6,201,538
EXPENSE PROJECTIONS													
Operating	Personnel Expenses	(\$217,105)	(\$223,618)	(\$230,327)	(\$237,236)	(\$244,354)	(\$251,684)	(\$259,235)	(\$267,012)	(\$275,022)	(\$283,273)	(\$380,695)	(\$511,622)
	Maintenance	(285,000)	(293,550)	(302,357)	(311,427)	(320,770)	(330,393)	(340,305)	(350,514)	(361,029)	(371,860)	(499,749)	(671,621)
	Janitorial	(9,500)	(9,785)	(10,079)	(10,381)	(10,692)	(11,013)	(11,343)	(11,684)	(12,034)	(12,395)	(16,658)	(22,387)
	Utilities (including data/phone)	(192,060)	(209,185)	(216,317)	(223,707)	(231,362)	(239,295)	(247,515)	(256,034)	(264,864)	(274,015)	(386,291)	(548,524)
	Other Expenses	(45,683)	(47,622)	(49,093)	(50,611)	(52,177)	(53,792)	(55,457)	(57,176)	(58,949)	(60,777)	(82,581)	(112,452)
Non-operating	Depreciation/Reserve Funding (Building & Equipment)	(706,800)	(706,800)	(706,800)	(706,800)	(706,800)	(706,800)	(706,800)	(706,800)	(706,800)	(706,800)	(706,800)	(706,800)
	Interest	(1,510,500)	(1,488,911)	(1,466,177)	(1,442,239)	(1,417,032)	(1,390,489)	(1,362,539)	(1,333,107)	(1,302,116)	(1,269,483)	(831,166)	(96,530)
TOTAL EXPENSES		(\$2,966,648)	(\$2,979,471)	(\$2,981,150)	(\$2,982,401)	(\$2,983,187)	(\$2,983,466)	(\$2,983,195)	(\$2,982,327)	(\$2,980,814)	(\$2,978,604)	(\$2,903,940)	(\$2,669,936)
NET REVENUE		(\$992,948)	(\$268,923)	(\$189,285)	(\$106,781)	(\$21,298)	\$67,280	\$159,073	\$254,209	\$352,818	\$455,038	\$1,710,586	\$3,531,602
Accumulated Revenue Balance			(\$1,261,871)	(\$1,451,156)	(\$1,557,937)	(\$1,579,235)	(\$1,511,955)	(\$1,352,881)	(\$1,098,673)	(\$745,855)	(\$290,817)	\$10,786,742	\$37,342,772
CASH FLOW													
Net Revenue		(\$992,948)	(\$268,923)	(\$189,285)	(\$106,781)	(\$21,298)	\$67,280	\$159,073	\$254,209	\$352,818	\$455,038	\$1,710,586	\$3,531,602
Depreciation/Reserve Funding (Building & Equipment)		706,800	706,800	706,800	706,800	706,800	706,800	706,800	706,800	706,800	706,800	706,800	706,800
Capital Expenditures		-	-	-	-	-	-	-	-	-	(4,910,562)	(7,268,832)	(10,759,647)
Principal (Debt)		(407,345)	(428,934)	(451,668)	(475,606)	(500,813)	(527,356)	(555,306)	(584,738)	(615,729)	(648,362)	(1,086,679)	(1,821,315)
Annual Cash Flow		(\$693,493)	\$8,943	\$65,847	\$124,413	\$184,689	\$246,724	\$310,567	\$376,271	\$443,889	(\$4,397,087)	(\$5,938,125)	(\$8,342,560)
Accumulated Cash Flow			(\$684,550)	(\$618,703)	(\$494,290)	(\$309,601)	(\$62,878)	\$247,689	\$623,961	\$1,067,850	(\$3,329,237)	(\$1,160,961)	\$7,107,731

*\$30M project; 50 year, straight line depreciation

Table 6: OSU Newport - Student Housing *pro forma*.

OSU - Newport Housing													
ASSUMPTIONS													
Total cost		Amount \$27,180,000											
REVENUE PROJECTIONS													
		Year 1 (FY19)	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10 (FY28)	Year 20 (FY38)	Year 30 (FY48)
Revenue from housing units (4 buildings)		\$65,800	\$1,161,840	\$1,436,034	\$1,725,634	\$1,955,144	\$2,013,798	\$2,074,212	\$2,136,438	\$2,400,580	\$2,472,597	\$3,857,012	\$5,183,501
TOTAL REVENUES		\$65,800	\$1,161,840	\$1,436,034	\$1,725,634	\$1,955,144	\$2,013,798	\$2,074,212	\$2,136,438	\$2,400,580	\$2,472,597	\$3,857,012	\$5,183,501
EXPENSE PROJECTIONS													
Operating	Personnel Expenses	(\$123,430)	(\$254,266)	(\$261,894)	(\$269,751)	(\$277,843)	(\$286,178)	(\$294,764)	(\$303,607)	(\$312,715)	(\$322,096)	(\$432,871)	(\$581,742)
	Maintenance	(99,973)	(102,972)	(106,061)	(109,243)	(112,520)	(115,896)	(119,373)	(122,954)	(126,643)	(130,442)	(175,303)	(235,593)
	Janitorial	(9,060)	(9,332)	(9,612)	(9,900)	(10,197)	(10,503)	(10,818)	(11,143)	(11,477)	(11,821)	(15,887)	(21,350)
	Utilities (including data/phone)	(182,404)	(208,459)	(219,396)	(231,087)	(247,002)	(254,843)	(262,936)	(271,290)	(289,800)	(299,096)	(433,696)	(598,660)
	Other Expenses	(31,243)	(39,566)	(40,988)	(42,473)	(44,196)	(45,543)	(46,932)	(48,363)	(50,333)	(51,873)	(71,300)	(96,611)
	Depreciation/Reserve Funding (Building & Equipment)	(652,320)	(652,320)	(652,320)	(652,320)	(652,320)	(652,320)	(652,320)	(652,320)	(652,320)	(652,320)	(652,320)	(652,320)
Non-operating	Transfer from E&G to subsidize depreciation expense	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320
	Interest	(1,562,850)	(1,542,195)	(1,520,352)	(1,497,254)	(1,472,827)	(1,446,996)	(1,419,679)	(1,390,792)	(1,360,243)	(1,327,938)	(882,902)	(104,510)
TOTAL EXPENSES		(\$2,008,960)	(\$2,156,791)	(\$2,158,303)	(\$2,159,707)	(\$2,164,586)	(\$2,159,960)	(\$2,154,502)	(\$2,148,148)	(\$2,151,210)	(\$2,143,267)	(\$2,011,959)	(\$1,638,466)
NET REVENUE		(\$1,943,160)	(\$994,951)	(\$722,269)	(\$434,072)	(\$209,442)	(\$146,161)	(\$80,290)	(\$11,710)	\$249,370	\$329,330	\$1,845,053	\$3,545,035
Accumulated Revenue Balance			(\$2,938,111)	(\$3,660,380)	(\$4,094,452)	(\$4,303,894)	(\$4,450,056)	(\$4,530,346)	(\$4,542,056)	(\$4,292,686)	(\$3,963,356)	\$7,366,703	\$34,590,211
CASH FLOW													
Net Revenue		(\$1,943,160)	(\$994,951)	(\$722,269)	(\$434,072)	(\$209,442)	(\$146,161)	(\$80,290)	(\$11,710)	\$249,370	\$329,330	\$1,845,053	\$3,545,035
Depreciation/Reserve Funding (Building & Equipment)		652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320	652,320
Capital Expenditures		-	-	-	-	-	-	-	-	-	(3,922,721)	(5,806,586)	(8,595,166)
Principal (Debt)		(359,217)	(379,872)	(401,715)	(424,814)	(449,240)	(475,072)	(502,388)	(531,276)	(561,824)	(594,129)	(1,039,165)	(1,817,558)
Annual Cash Flow		(\$1,650,058)	(\$722,503)	(\$471,664)	(\$206,566)	(\$6,363)	\$31,087	\$69,642	\$109,334	\$339,866	(\$3,535,200)	(\$4,348,378)	(\$6,215,368)
Accumulated Cash Flow			(\$2,372,561)	(\$2,844,224)	(\$3,050,791)	(\$3,057,153)	(\$3,026,066)	(\$2,956,425)	(\$2,847,090)	(\$2,507,225)	(\$6,042,424)	(\$2,180,543)	\$8,655,338
*\$27.18M project; 50 year, straight line depreciation													

Attachment 1

RESOLUTION NO. _____
BOARD OF TRUSTEES OF OREGON STATE UNIVERSITY
GENERAL REVENUE BONDS, 2017/2018

A RESOLUTION OF THE BOARD OF TRUSTEES OF OREGON STATE UNIVERSITY, AUTHORIZING THE ISSUANCE OF ONE OR MORE SERIES OF GENERAL REVENUE BONDS OF THE UNIVERSITY IN THE AGGREGATE PRINCIPAL AMOUNT OF NOT TO EXCEED \$74,675,000 FOR THE PURPOSE OF FINANCING OR REFINANCING ALL OR A PORTION OF THE COSTS OF UNIVERSITY PROJECTS AND TO PAY THE COSTS OF ISSUANCE OF SUCH BONDS; PROVIDING FOR THE DISPOSITION OF THE PROCEEDS OF SALE OF SUCH BONDS; AND DELEGATING AUTHORITY TO THE AUTHORIZED UNIVERSITY REPRESENTATIVE TO DETERMINE THE METHOD OF SALE, APPROVE THE NUMBER OF SERIES, THE SERIES DESIGNATION, FINAL PRINCIPAL AMOUNTS, DATE OF THE BONDS, DENOMINATIONS, INTEREST RATES, PAYMENT DATES, REDEMPTION PROVISIONS, AND MATURITY DATES FOR THE BONDS UNDER THE TERMS AND CONDITIONS SET FORTH HEREIN.

ADOPTED: June __, 2017

PREPARED BY
PACIFICA LAW GROUP LLP
SEATTLE, WASHINGTON

RESOLUTION NO. _____
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* This Table of Contents is provided for reference only and does not constitute a part of this Resolution for which it is provided.

RESOLUTION NO. _____

BOARD OF TRUSTEES OF OREGON STATE UNIVERSITY

A RESOLUTION OF THE BOARD OF TRUSTEES OF OREGON STATE UNIVERSITY, AUTHORIZING THE ISSUANCE OF ONE OR MORE SERIES OF GENERAL REVENUE BONDS OF THE UNIVERSITY IN THE AGGREGATE PRINCIPAL AMOUNT OF NOT TO EXCEED \$74,675,000 FOR THE PURPOSE OF FINANCING OR REFINANCING ALL OR A PORTION OF THE COSTS OF UNIVERSITY PROJECTS AND TO PAY THE COSTS OF ISSUANCE OF SUCH BONDS; PROVIDING FOR THE DISPOSITION OF THE PROCEEDS OF SALE OF SUCH BONDS; AND DELEGATING AUTHORITY TO THE AUTHORIZED UNIVERSITY REPRESENTATIVE TO DETERMINE THE METHOD OF SALE, APPROVE THE NUMBER OF SERIES, THE SERIES DESIGNATION, FINAL PRINCIPAL AMOUNTS, DATE OF THE BONDS, DENOMINATIONS, INTEREST RATES, PAYMENT DATES, REDEMPTION PROVISIONS, AND MATURITY DATES FOR THE BONDS UNDER THE TERMS AND CONDITIONS SET FORTH HEREIN.

WHEREAS, Oregon Revised Statutes (“ORS”) 352.087 authorizes Oregon State University (the “University”) to borrow money for the needs of the University in such amounts, at such times, and upon such terms as may be determined by the University acting through its Board of Trustees (the “Board”); and

WHEREAS, ORS 352.408(1) authorizes the University to issue revenue bonds for any lawful purpose of the University in accordance with ORS chapter 287A; and

WHEREAS, the University Debt Policy provides that the University may use debt or other financing agreements to meet its strategic objectives and, pursuant to Section V of the Debt Policy, the Board must authorize all new debt issuances; and

WHEREAS, the University has previously issued its General Revenue Bonds, 2015A in the aggregate principal amount of \$41,040,000 and its General Revenue Bonds, 2015B (Federally Taxable) in the aggregate principal amount of \$10,075,000 (collectively, the “2015 Bonds”); and

WHEREAS, the University has previously issued its General Revenue Bonds, 2016A in the aggregate principal amount of \$40,165,000 and its General Revenue Bonds, 2016B (Federally Taxable) in the aggregate principal amount of \$7,095,000 (collectively, the “2016 Bonds” and together with the 2015 Bonds, the “Prior Bonds”)

WHEREAS, the University now desires to authorize the issuance of one or more series of general revenue bonds in an aggregate principal amount not to exceed \$74,675,000 (the “Bonds”) on a parity with the pledge securing the payment of the principal of and interest on the Prior Bonds to finance or refinance all or a portion of the costs of University projects and to pay costs of issuance for such bonds as provided herein; and

WHEREAS, the Board wishes to delegate authority to the Vice President for Finance and Administration of the University, or his or her designee or any interim officer exercising, or successor to, the functions of such office (each, an “Authorized University Representative”), for a limited time, to select the method of sale that is in the best interest of the University, to approve the number of series, the series designation, the final principal amounts, the dated date(s), the denominations, the interest rates, the payment dates, the tax status, the redemption provisions, and the maturity dates for the bonds as provided by this Resolution;

NOW, THEREFORE, the Board resolves as follows:

Section 1.

(a) *Definitions.* As used in this Resolution, the following words shall have the following meanings, unless a different meaning clearly appears from the context:

Additional Bonds means bonds, leases, interest rate swaps, and other contractual obligations issued by the University and expressly secured by a pledge of General Revenues on a parity with the pledge securing the payment of the principal of and interest on the Bonds.

Approved Bid means the winning bid submitted for the Bonds, if any.

Authorized University Representative means the Vice President for Finance and Administration of the University, or his or her designee or any interim officer exercising, or any successor to, the functions of such office.

Beneficial Owner means any person that has or shares the power, directly or indirectly, to make investment decisions concerning ownership of any Bonds (including persons holding Bonds through nominees, depositories or other intermediary).

Board means the Board of Trustees of the University.

Bond Act means, together, chapters 287A and 352 ORS, in each case as amended from time to time.

Bond Fund means the special fund(s) for the payment of the principal of and interest on the Bonds as required pursuant to Section 10 hereof.

Bond Purchase Contract means the purchase contract(s) for the purchase of all or a portion of the Bonds, if any, between the University and the Underwriter(s).

Bond Register means the registration records for the Bonds maintained by the Registrar.

Bond Registrar means the bank or trust company selected by the Authorized University Representative pursuant to Section 4 of this Resolution for the purposes of registering and authenticating the Bonds, maintaining the Bond Register, effecting transfer of ownership of the Bonds, and paying interest on and principal of the Bonds.

Bonds mean the Oregon State University General Revenue Bonds, [2017/2018][Federally Taxable], authorized to be issued by this Resolution.

Code means the Internal Revenue Code of 1986 as in effect on the date of issuance of the Bonds or (except as otherwise referenced herein) as it may be amended to apply to obligations issued on the date of issuance of the Bonds, together with applicable proposed, temporary and final regulations promulgated, and applicable official public guidance published, under the Code.

Commission means the Securities and Exchange Commission.

Continuing Disclosure Certificate means the certificate of the University undertaking to provide ongoing disclosure to assist the Underwriter(s) in complying with the Rule.

Debt Management Agreement means the Restated and Amended Agreement for Debt Management among the University, the State Treasurer, the Higher Education Coordinating Commission, and Department of Administrative Services dated as of July 1, 2015, as it may be amended from time to time.

DTC means The Depository Trust Company of New York, as depository for the Bonds, or any successor or substitute depository for the Bonds.

Fair Market Value means the price at which a willing buyer would purchase an investment from a willing seller in a bona fide, arm's-length transaction, except for specified investments as described in Treasury Regulation §1.148-5(d)(6), including United States Treasury obligations, certificates of deposit, guaranteed investment contracts, and investments for yield restricted defeasance escrows. Fair Market Value is generally determined on the date on which a contract to purchase or sell an investment becomes binding, and, to the extent required by the applicable regulations under the Code, the term "investment" will include a hedge.

Federal Tax Certificate means the certification of the University executed and delivered in connection with the issuance of Tax-Exempt Bonds.

General Revenues means tuition, charges, rents, and other operating revenue of the University, except as specifically excluded below. The following items are excluded:

1. Student Building Fees and Student Incidental Fees;
2. Grant and Contract Revenue;
3. Amounts required to be transferred to the State Treasurer for deposit for University-Paid State Bonds next coming due, and without duplication, amounts required to be paid to the State Treasurer for University-Paid State Bonds next coming due; and
4. Amounts that otherwise are restricted in their use by law, regulation, and contract.

For clarity, the University notes that moneys received by the University from taxes collected by the State and gifts are not operating revenues of the University and are therefore not included in the definition of General Revenue. Unrestricted net assets, to the extent that they were received as **General Revenues**, would be includable and available to pay obligations secured by **General Revenues**. Upon the addition or deletion of any income, revenues, or receipts from General Revenues pursuant to Section 11, this definition of General Revenues shall be deemed to be amended accordingly without further action by the University.

General Revenue Note means any general revenue note issued pursuant to Resolution No. _____ of the Board.

Government Obligations means direct obligations of the United States of America, obligations the principal of and interest on which are unconditionally guaranteed by the United States of America and bank certificates of deposit secured by the obligations, and bonds, debentures, notes, certificates of participation or other obligations issued by a federal agency or other instrumentality of the federal government.

Grant and Contract Revenue means revenue from grants and contracts, whether restricted or unrestricted, including for illustrative purposes the following items identified in the University's financial statements: federal grants and contracts, state and local grants and contracts, and nongovernmental grants and contracts.

Letter of Representations means the Blanket Letter of Representations from the University to DTC.

Notice of Sale means the notice of bond sale authorized to be given pursuant to Section 14 of this resolution.

Official Statement means the Official Statement of the University pertaining to the sale of the Bonds, in either preliminary or final form.

ORS means the Oregon Revised Statutes, as now in existence or hereafter amended, or any successor codification of the laws of the State.

Permitted Investments means any legally permissible investment for University funds, but only to the extent that the same are acquired at Fair Market Value.

Prior Bonds means the 2015 Bonds, the 2016 Bonds and any General Revenue Notes issued prior to the date of the Bonds.

Project Fund means the fund or account designated by the Authorized University Representative for the deposit of Bond proceeds, including any account or subaccounts therein authorized to be created pursuant to Section 8 of this Resolution for the purpose of holding a portion of the proceeds of the Bonds.

Projects mean the design, acquisition, development, construction, improvement and/or equipping of facilities serving the needs of the University including without limitation the renovation of Gilkey Hall, the Steam Line replacement and tunnel extension, upper division and graduate student housing projects, the Newport housing project, and minor capital programmatic improvements.

Registered Owner means the person in whose name a Bond is registered on the Bond Register. For so long as the University utilizes the book-entry system for the Bonds, DTC shall be deemed to be the Registered Owner.

Resolution means this Resolution authorizing the issuance of the Bonds, adopted by the Board.

Rule means the Commission's Rule 15c2-12 under the Securities Exchange Act of 1934, as the same may be amended from time to time.

State means the State of Oregon.

State Treasurer means the Treasurer of the State.

Student Building Fee means the separate fee charged by the Board to students for the use of buildings, structures and projects under the Board's control. The Student Building Fee is in addition to tuition and other fees charged to students.

Student Incidental Fee means the separate fee charged by the Board to students pursuant to a request by the recognized student government under a process established by the student government. The recognized student government allocates the Student Incidental Fees collected for purposes pursuant to the process established by the student government.

Taxable Bonds means any Bonds determined to be issued on a taxable basis pursuant to Section 14.

Tax-Exempt Bonds mean any Bonds determined to be issued on a tax-exempt basis under the Code pursuant to Section 14.

2015 Bonds means the Oregon State University General Revenue Bonds, 2015A and General Revenue Bonds, 2015B (Federally Taxable).

2016 Bonds means the Oregon State University General Revenue Bonds, 2016A and General Revenue Bonds, 2016B (Federally Taxable).

Underwriter(s) means the initial purchaser of the Bonds, as selected by the Authorized University Representative.

University means Oregon State University, a public university of the State, the main campus of which is located at Corvallis, Oregon.

University-Paid State Bonds means the payments to be made by the University representing its share of debt service to be paid when due on bonds or other obligations issued by the State for the benefit of the University established by the schedule of outstanding state bonds prepared under ORS 352.415(3) and evidenced by the Debt Management Agreement entered into pursuant to ORS 352.135(2).

Vice President for Finance and Administration means the Vice President for Finance and Administration of the University, or his or her designee or any interim officer exercising, or successor to, the functions of such office.

(b) *Interpretation.* In this Resolution, unless the context otherwise requires:

1. The terms “hereby,” “hereof,” “hereto,” “herein,” “hereunder” and any similar terms, as used in this Resolution, refer to this Resolution as a whole and not to any particular article, section, subdivision or clause hereof, and the term “hereafter” shall mean after, and the term “heretofore” shall mean before, the date of this Resolution;

2. Words of the masculine gender shall mean and include correlative words of the feminine and neuter genders and words importing the singular number shall mean and include the plural number and vice versa;

3. Words importing persons shall include firms, associations, partnerships (including limited partnerships), trusts, corporations and other legal entities, including public bodies, as well as natural persons;

4. Any headings preceding the text of the several articles and sections of this Resolution, and any table of contents or marginal notes appended to copies hereof, shall be solely for convenience of reference and shall not constitute a part of this Resolution, nor shall they affect its meaning, construction or effect; and

5. All references herein to “articles,” “sections” and other subdivisions or clauses are to the corresponding articles, sections, subdivisions or clauses hereof.

Section 2. Findings; Authorization of Projects. The Board hereby finds that it is in the public interest for the University to issue the Bonds to finance, or refinance any

General Revenue Notes evidencing line of credit draws for, a portion of the costs of the Projects. The Board hereby further finds that the Board intends that the Bonds be of the same character and tenor as the General Revenue Notes issued to provide interim financing of capital projects in anticipation of issuance of Bonds for University projects.

Section 3. Authorization of Bonds and Description of Bonds. For the purpose financing all or a portion of the costs of the Projects and paying costs of issuing the Bonds, the Board hereby authorizes the sale and issuance of general revenue bonds (the "Bonds"). The Bonds shall be special revenue bonds of the University; shall be designated the "Oregon State University General Revenue Bonds, [2017/2018][Federally Taxable]", with such additional series designation or other designation as determined to be necessary by the Authorized University Representative; shall be dated as of their date of delivery; shall be fully registered as to both principal and interest; shall be in the denomination of \$5,000 each, or any integral multiple thereof, provided that no Bond shall represent more than one maturity; shall be numbered separately in such manner and with any additional designation as the Bond Registrar deems necessary for purposes of identification; and shall bear interest from their date payable on the dates and at rates set forth in the Approved Bid or Bond Purchase Contract; and shall mature on the dates and in the principal amounts set forth in the Approved Bid or Bond Purchase Contract and as approved by the Authorized University Representative pursuant to Section 14. The Bonds of any of the maturities may be combined and issued as term bonds, subject to mandatory redemption as provided in the Notice of Sale, the Approved Bid or Bond Purchase Contract.

Section 4. Registration, Transfer and Payment of Bonds.

(a) *Bond Registrar/Bond Register.* The Authorized University Representative is hereby authorized to appoint as Bond Registrar a bank or trust company qualified by law to perform the duties described herein. The University shall cause a Bond Register to be maintained by the Bond Registrar. So long as any Bonds remain outstanding, the Bond Registrar shall make all necessary provisions to permit the exchange or registration or transfer of Bonds at its principal corporate trust office. The Bond Registrar may be removed at any time at the option of the Authorized University Representative upon prior notice to the Bond Registrar and a successor Bond Registrar appointed by the Authorized University Representative. No resignation or removal of the Bond Registrar shall be effective until a successor shall have been appointed and until the successor Bond Registrar shall have accepted the duties of the Bond Registrar hereunder. The Bond Registrar is authorized, on behalf of the University, to authenticate and deliver Bonds transferred or exchanged in accordance with the provisions of such Bonds and this Resolution and to carry out all of the Bond Registrar's powers and duties under this Resolution. The Bond Registrar shall be responsible for its representations contained in the Certificate of Authentication of the Bonds.

(b) *Registered Ownership.* The University and the Bond Registrar, each in its discretion, may deem and treat the Registered Owner of each Bond as the absolute owner thereof for all purposes (except as provided in any University Continuing Disclosure Certificate), and neither the University nor the Bond Registrar shall be

affected by any notice to the contrary. Payment of any such Bond shall be made only as described in Section 4(h) hereof, but such Bond may be transferred as herein provided. All such payments made as described in Section 4(h) shall be valid and shall satisfy and discharge the liability of the University upon such Bond to the extent of the amount or amounts so paid.

(c) *DTC Acceptance/Letters of Representations.* The Bonds initially shall be held in fully immobilized form by DTC acting as depository. To induce DTC to accept the Bonds as eligible for deposit at DTC, the University has executed and delivered to DTC a Blanket Issuer Letter of Representations. Neither the University nor the Bond Registrar will have any responsibility or obligation to DTC participants or the persons for whom they act as nominees (or any successor depository) with respect to the Bonds in respect of the accuracy of any records maintained by DTC (or any successor depository) or any DTC participant, the payment by DTC (or any successor depository) or any DTC participant of any amount in respect of the principal of or interest on Bonds, any notice which is permitted or required to be given to Registered Owners under this Resolution (except such notices as shall be required to be given by the University to the Bond Registrar or to DTC (or any successor depository)), or any consent given or other action taken by DTC (or any successor depository) as the Registered Owner. For so long as any Bonds are held in fully-immobilized form hereunder, DTC, its nominee or its successor depository shall be deemed to be the Registered Owner for all purposes hereunder, and all references herein to the Registered Owners shall mean DTC (or any successor depository) or its nominee and shall not mean the owners of any beneficial interest in such Bonds.

If any Bond shall be duly presented for payment and funds have not been duly provided by the University on such applicable date, then interest shall continue to accrue thereafter on the unpaid principal thereof at the rate stated on such Bond until it is paid.

(d) *Use of Depository.*

1. The Bonds shall be registered initially in the name of "Cede & Co.", as nominee of DTC, with one Bond maturing on each of the maturity dates for the Bonds in a denomination corresponding to the total principal therein designated to mature on such date. Registered ownership of such immobilized Bonds, or any portions thereof, may not thereafter be transferred except (A) to any successor of DTC or its nominee, provided that any such successor shall be qualified under any applicable laws to provide the service proposed to be provided by it; (B) to any substitute depository appointed by the Authorized University Representative pursuant to subsection (2) below or such substitute depository's successor; or (C) to any person as provided in subsection (4) below.

2. Upon the resignation of DTC or its successor (or any substitute depository or its successor) from its functions as depository or a determination by the Authorized University Representative to discontinue the system of book entry transfers through DTC or its successor (or any substitute depository or its successor), the Authorized University Representative may hereafter appoint a substitute depository.

Any such substitute depository shall be qualified under any applicable laws to provide the services proposed to be provided by it.

3. In the case of any transfer pursuant to clause (A) or (B) of subsection (1) above, the Bond Registrar shall, upon receipt of all outstanding Bonds of a series, together with a written request on behalf of the Authorized University Representative, issue a single new Bond for each maturity then outstanding, registered in the name of such successor or such substitute depository, or their nominees, as the case may be, all as specified in such written request of the Authorized University Representative.

4. In the event that (A) DTC or its successor (or substitute depository or its successor) resigns from its functions as depository, and no substitute depository can be obtained, or (B) the Authorized University Representative determines that it is in the best interest of the Beneficial Owners of the Bonds that such owners be able to obtain such bonds in the form of Bond certificates, the ownership of such Bonds may then be transferred to any person or entity as herein provided, and shall no longer be held in fully-immobilized form. The Authorized University Representative shall deliver a written request to the Bond Registrar, together with a supply of definitive Bonds, to issue Bonds as herein provided in any authorized denomination. Upon receipt by the Bond Registrar of all then outstanding Bonds of a series together with a written request on behalf of the Authorized University Representative to the Bond Registrar, new Bonds shall be issued in the appropriate denominations and registered in the names of such persons as are requested in such written request.

(e) *Registration of Transfer of Ownership or Exchange; Change in Denominations.* The transfer of any Bond may be registered and Bonds may be exchanged, but no transfer of any such Bond shall be valid unless it is surrendered to the Bond Registrar with the assignment form appearing on such Bond duly executed by the Registered Owner or such Registered Owner's duly authorized agent in a manner satisfactory to the Bond Registrar. Upon such surrender, the Bond Registrar shall cancel the surrendered Bond and shall authenticate and deliver, without charge to the Registered Owner or transferee therefor, a new Bond (or Bonds at the option of the new Registered Owner) of the same date, maturity, and interest rate and for the same aggregate principal amount in any authorized denomination, naming as Registered Owner the person or persons listed as the assignee on the assignment form appearing on the surrendered Bond, in exchange for such surrendered and cancelled Bond. Any Bond may be surrendered to the Bond Registrar and exchanged, without charge, for an equal aggregate principal amount of Bonds of the same date, maturity, and interest rate, in any authorized denomination. The Bond Registrar shall not be obligated to register the transfer or to exchange any Bond during the 15 days preceding any interest payment or principal payment date any such Bond is to be redeemed.

(f) *Bond Registrar's Ownership of Bonds.* The Bond Registrar may become the Registered Owner of any Bond with the same rights it would have if it were not the Bond Registrar, and to the extent permitted by law, may act as depository for and permit any of its officers or directors to act as member of, or in any other capacity with respect to, any committee formed to protect the right of the Registered Owners of Bonds.

(g) *Registration Covenant.* The University covenants that, until all Bonds have been surrendered and canceled, it will maintain a system for recording the ownership of each Bond that complies with the provisions of Section 149 of the Code.

(h) *Place and Medium of Payment.* Both principal of and interest on the Bonds shall be payable in lawful money of the United States of America. Interest on the Bonds shall be calculated on the basis of a year of 360 days and twelve 30-day months. For so long as all Bonds are in fully immobilized form, payments of principal and interest thereon shall be made as provided in accordance with the operational arrangements of DTC referred to in the Letter of Representations. In the event that the Bonds are no longer in fully immobilized form, interest on the Bonds shall be paid by check or draft mailed to the Registered Owners at the addresses for such Registered Owners appearing on the Bond Register on the fifteenth day of the month preceding the interest payment date, or upon the written request of a Registered Owner of more than \$1,000,000 of Bonds (received by the Bond Registrar at least 15 days prior to the applicable payment date), such payment shall be made by the Bond Registrar by wire transfer to the account within the continental United States designated by the Registered Owner. Principal of the Bonds shall be payable upon presentation and surrender of such Bonds by the Registered Owners at the principal office of the Bond Registrar.

Section 5. Redemption and Purchase.

(a) *Mandatory Redemption of Term Bonds and Optional Redemption, if any.* The Bonds of a series shall be subject to optional redemption on the dates, at the prices and under the terms set forth in the Notice of Sale, Approved Bid or Bond Purchase Contract approved by the Authorized University Representative pursuant to Section 14 of this Resolution. The Bonds of a series shall be subject to mandatory redemption to the extent, if any, set forth in the Notice of Sale, Approved Bid or Bond Purchase Contract and as approved by the Authorized University Representative pursuant to Section 14 of this Resolution.

(b) *Purchase of Bonds.* The University reserves the right to purchase any of the Bonds offered to it at any time at a price deemed reasonable by the Authorized University Representative.

(c) *Selection of Bonds for Redemption.* For as long as the Bonds are held in book-entry only form, the selection of particular Bonds within a series and maturity to be redeemed shall be made in accordance with the operational arrangements then in effect at DTC. If the Bonds are no longer held in book-entry only form, the selection of such Bonds to be redeemed and the surrender and reissuance thereof, as applicable, shall be made as provided in the following provisions of this subsection (c) or otherwise as provided in the Notice of Sale, Approved Bid or Bond Purchase Contract. Except as otherwise provided in the Notice of Sale, Approved Bid or Bond Purchase Contract, if the University redeems at any one time fewer than all of the Bonds having the same series and maturity date, the particular Bonds or portions of Bonds of such series and maturity to be redeemed shall be selected by lot (or in such manner determined by the

Bond Registrar) in increments of \$5,000. In the case of a Bond of a denomination greater than \$5,000, the University and the Bond Registrar shall treat each Bond as representing such number of separate Bonds each of the denomination of \$5,000 as is obtained by dividing the actual principal amount of such Bond by \$5,000. In the event that only a portion of the principal sum of a Bond is redeemed, upon surrender of such Bond at the principal office of the Bond Registrar there shall be issued to the Registered Owner, without charge therefor, for the then unredeemed balance of the principal sum thereof, at the option of the Registered Owner, a Bond or Bonds of like maturity and interest rate in any of the denominations herein authorized.

(d) *Notice of Redemption.*

1. Official Notice. For so long as the Bonds are held in book-entry only form, notice of redemption (which notice may be conditional on the receipt of sufficient funds for redemption or otherwise) shall be given in accordance with the operational arrangements of DTC as then in effect, and neither the University nor the Bond Registrar will provide any notice of redemption to any Beneficial Owners. Thereafter (if the Bonds are no longer held in book-entry only form), notice of redemption shall be given in the manner hereinafter provided. Unless waived by any owner of Bonds to be redeemed, official notice of any such redemption (which redemption may be conditioned by the Bond Registrar on the receipt of sufficient funds for redemption or otherwise) shall be given by the Bond Registrar on behalf of the University by mailing a copy of an official redemption notice by first class mail at least 20 days and not more than 60 days prior to the date fixed for redemption to the Registered Owner of the Bond or Bonds to be redeemed at the address shown on the Register or at such other address as is furnished in writing by such Registered Owner to the Bond Registrar.

All official notices of redemption shall be dated and shall state:

- (A) the redemption date;
- (B) the redemption price;
- (C) if fewer than all outstanding Bonds are to be redeemed, the identification by maturity (and, in the case of partial redemption, the respective principal amounts) of the Bonds to be redeemed;
- (D) that on the redemption date the redemption price will become due and payable upon each such Bond or portion thereof called for redemption, and that interest thereon shall cease to accrue from and after said date;
- (E) any conditions to redemption; and
- (F) the place where such Bonds are to be surrendered for payment of the redemption price, which place of payment shall be the principal office of the Bond Registrar.

On or prior to any redemption date, unless such redemption has been rescinded, the University shall deposit with the Bond Registrar an amount of money sufficient to pay the redemption price of all the Bonds or portions of Bonds which are to be redeemed on that date. The University retains the right to rescind any redemption notice and the related optional redemption of Bonds by giving notice of rescission to the affected registered owners at any time on or prior to the scheduled redemption date.

Any notice of optional redemption that is so rescinded shall be of no effect, and the Bonds for which the notice of optional redemption has been rescinded shall remain outstanding.

2. Effect of Notice; Bonds Due. If an unconditional notice of redemption has been given as aforesaid, or if the conditions to redemption have been satisfied or waived, the Bonds or portions of Bonds so to be redeemed shall, on the redemption date, become due and payable at the redemption price therein specified, and from and after such date such Bonds or portions of Bonds shall cease to bear interest. Upon surrender of such Bonds for redemption in accordance with said notice, such Bonds shall be paid by the Bond Registrar at the redemption price. Installments of interest due on or prior to the redemption date shall be payable as herein provided for payment of interest. All Bonds which have been redeemed shall be canceled and destroyed by the Bond Registrar and shall not be reissued.

3. Additional Notice. In addition to the foregoing notice, further notice shall be given by the University as set out below, but no defect in said further notice nor any failure to give all or any portion of such further notice shall in any manner defeat the effectiveness of a call for redemption if notice thereof is given as above prescribed. Each further notice of redemption given hereunder shall contain the information required above for an official notice of redemption plus (A) the CUSIP numbers of all Bonds being redeemed; (B) the date of issue of the Bonds as originally issued; (C) the rate of interest borne by each Bond being redeemed; (D) the maturity date of each Bond being redeemed; and (E) any other descriptive information needed to identify accurately the Bonds being redeemed. Each further notice of redemption may be sent at least 20 days before the redemption date to each party entitled to receive notice pursuant to any University Continuing Disclosure Certificate and to the Underwriter(s) and with such additional information as the University shall deem appropriate, but such mailings shall not be a condition precedent to the redemption of such Bonds.

4. Amendment of Notice Provisions. The foregoing notice provisions of this Section 5, including but not limited to the information to be included in redemption notices and the persons designated to receive notices, may be amended without the consent of owners of the Bonds in order to maintain compliance with duly promulgated regulations and recommendations regarding notices of redemption of municipal securities.

Section 6. Form of the Bonds. The Bonds shall be in substantially the form set forth at Exhibit A, with appropriate or necessary insertions, depending upon the omissions and variations as permitted or required hereby.

Section 7. Execution of the Bonds. The Bonds of each series shall be executed on behalf of the University with the manual or facsimile signature of the Chair of the Board and shall be attested by the manual or facsimile signature of either the Secretary of the Board or the Vice President for Finance and Administration of the University.

Only Bonds that bear a Certificate of Authentication substantially in the form set forth in Exhibit A, manually executed by the Bond Registrar, shall be valid or obligatory for any purpose or entitled to the benefits of this Resolution. Such Certificate of Authentication shall be conclusive evidence that the Bonds so authenticated have been duly executed, authenticated and delivered and are entitled to the benefits of this Resolution.

In case either of the officers of the University who shall have executed the Bonds shall cease to be such officer or officers of the University before the Bonds so signed shall have been authenticated or delivered by the Bond Registrar, or issued by the University, such Bonds may nevertheless be authenticated, delivered and issued and upon such authentication, delivery and issuance, shall be as binding upon the University as though those who signed the same had continued to be such officers of the University. Any Bond may also be signed and attested on behalf of the University by such persons as at the actual date of execution of such Bond shall be the proper officers of the University although at the original date of such Bond any such person shall not have been such officer.

Section 8. Disposition of Bond Proceeds. The Authorized University Representative is hereby authorized and directed to create one or more special funds or accounts of the University (collectively the "Project Fund"). The proceeds of the Bonds shall be paid into the Project Fund. The money on deposit in the Project Fund shall be utilized to finance, or refinance General Revenue Notes evidencing line of credit draws for, all or portion of the costs of the Projects, by paying or reimbursing the University for costs of the Projects and costs incidental thereto, including without limitation capitalizing interest on the Bonds, and for costs of issuance for the Bonds, to the extent designated by the Authorized University Representative.

All or part of the proceeds of the Bonds may be temporarily invested in Permitted Investments. Except as otherwise provided in the Federal Tax Certificate, the University covenants that all investments of amounts deposited in the Project Fund, or otherwise containing gross proceeds of the Tax-Exempt Bonds (within the meaning of Section 148 of the Code) will be acquired, disposed of, and valued (as of the date that valuation is required by the Code) at Fair Market Value.

In the event that it shall not be possible or practicable to accomplish all of the Projects, the University may apply the proceeds of the Bonds to pay the costs of such portion thereof as the Authorized University Representative shall determine to be in the best interests of the University, subject to any applicable limitations set forth in the Federal Tax Certificate.

Any part of the proceeds of the Bonds remaining in the Project Fund after all costs referred to in this section have been paid may be transferred to the Bond Fund for the uses and purposes therein provided, subject to any applicable limitations set forth in the Federal Tax Certificate.

Section 9. Tax Covenants. The University will take all actions necessary to assure the exclusion of interest on the Tax-Exempt Bonds from the gross income of the Owners of the Tax-Exempt Bonds to the same extent as such interest is permitted to be excluded from gross income under the Code as in effect on the date of issuance of the Tax-Exempt Bonds, including but not limited to the following:

(a) The University will assure that the proceeds of the Tax-Exempt Bonds are not used so as to cause the Tax-Exempt Bonds to satisfy the private business use tests of Section 141(b) of the Code or the private loan financing test of Section 141(c) of the Code.

(b) The University will not sell or otherwise transfer or dispose of (i) any personal property components of the Project financed or refinanced with the Tax-Exempt Bonds other than in the ordinary course of an established government program under Treasury Regulation 1.141-2(d)(4) or (ii) any real property components of the Project financed or refinanced with the Tax-Exempt Bonds, unless it has received an opinion of nationally recognized bond counsel to the effect that such disposition will not adversely affect the treatment of interest on the Tax-Exempt Bonds as excludable from gross income for federal income tax purposes.

(c) The University will not take any action or permit or suffer any action to be taken if the result of such action would be to cause any of the Tax-Exempt Bonds to be "federally guaranteed" within the meaning of Section 149(b) of the Code.

(d) The University will take any and all actions necessary to assure compliance with Section 148(f) of the Code, relating to the rebate of excess investment earnings, if any, to the federal government, to the extent that such section is applicable to the Tax-Exempt Bonds.

(e) The University will not take, or permit or suffer to be taken, any action with respect to the proceeds of the Tax-Exempt Bonds which, if such action had been reasonably expected to have been taken, or had been deliberately and intentionally taken, on the date of issuance of the Tax-Exempt Bonds would have caused the Tax-Exempt Bonds to be "arbitrage bonds" within the meaning of Section 148 of the Code.

(f) The University will maintain a system for recording the ownership of each Tax-Exempt Bond that complies with the provisions of Section 149 of the Code until all Tax-Exempt Bonds have been surrendered and canceled.

(g) The University will retain its records of all accounting and monitoring it carries out with respect to the Tax-Exempt Bonds for at least three years after the Tax-Exempt Bonds mature or are redeemed (whichever is earlier); however, if the Tax-Exempt Bonds are redeemed and refunded, the University will retain its records of accounting and monitoring at least three years after the earlier of the maturity or redemption of the obligations that refunded the Tax-Exempt Bonds.

(h) The University will comply with the provisions of the Federal Tax Certificate with respect to the Tax-Exempt Bonds, which are incorporated herein as if fully set forth herein. In the event of any conflict between this Section and the Federal Tax Certificate, the provisions of the Federal Tax Certificate will prevail.

The covenants of this Section will survive payment in full or defeasance of the Tax-Exempt Bonds.

Section 10. Bond Fund. The Bonds shall be general revenue obligations of the University, payable from General Revenues and secured as provided herein. The University hereby establishes a special fund of the University designated as the General Revenue Bond Fund, 2017 (the "Bond Fund"), which may consist of one or more funds or account established or maintained for this purpose. The University covenants to deposit into the Bond Fund from General Revenues on or prior to each interest payment date, redemption date and maturity date an amount sufficient, taking into account amounts on deposit therein, to pay the interest on the Bonds then coming due and the principal of the Bonds maturing or subject to redemption and redemption premium, if any. Such payments shall be made in sufficient time to enable the Bond Registrar to pay interest on and/or principal of and redemption price of the Bonds to the Registered Owners, when due. The University may deposit other amounts legally available for this purpose to the Bond Fund in its sole discretion and without obligation.

Net income earned on investments in the Bond Fund, if any, shall be deposited in the Bond Fund. Amounts in the Bond Fund may be temporarily invested in Permitted Investments. Except as otherwise provided in the Federal Tax Certificate, the University covenants that all investments of amounts deposited in the Bond Fund, or otherwise containing gross proceeds of the Tax-Exempt Bonds (within the meaning of Section 148 of the Code) will be acquired, disposed of, and valued (as of the date that valuation is required by the Code) at Fair Market Value.

Section 11. Sources of Security.

(a) *Pledge of General Revenues.* The Bonds shall be payable solely from and secured by a pledge of General Revenues and the money and investments deposited into the Bond Fund. The Bonds shall not constitute an indebtedness or obligation of the State, and are not a charge upon revenue or property of the State. The Registered Owners of the Bonds shall have no right to require the State, nor has the State any obligation or legal authorization, to levy any taxes or appropriate or expend any of its funds for the payment of the principal thereof or the interest or any premium thereon. The University has no taxing power.

The University hereby pledges General Revenues and the money and investments deposited into the Bond Fund to the payment of the principal of and interest on the Bonds when due. The Prior Bonds, the Bonds and any Additional Bonds shall be equally and ratably payable from and secured by a pledge of General Revenues, and

the money and investments deposited into the Bond Fund, without preference, priority or distinction because of date of issue or otherwise.

Pursuant to ORS 287A.310, this pledge shall be valid and binding from the time of the adoption of this Resolution. The amounts so pledged and hereafter received by the University shall immediately be subject to the lien of this pledge without any physical delivery, filing or any other act. Except as provided in this Resolution, the lien of this pledge shall be superior to all other claims and liens whatsoever to the fullest extent permitted by ORS 287A.310.

(b) *Pari Passu with University-Paid State Bonds.* The Bond Act provides for full payment of State debt obligations evidenced by the University's obligations to make University-Paid State Bonds from legally available funds. On and after the date that amounts are transferred to the State Treasurer for deposit to be credited against the University-Paid State Bonds next coming due, and on and after the date amounts, if any, are paid to the State Treasurer to pay without duplication University-Paid State Bonds next coming due, such amounts are no longer part of the definition of General Revenues available to pay the principal of and interest on the Bonds. Until such date, the University-Paid State Bonds are payable on a *pari passu* basis with the Prior Bonds and the Bonds subject to and to the extent provided in the Bond Act.

(c) *All Bonds Have Equal Claim on General Revenues.* The Bonds, the Prior Bonds and any Additional Bonds shall be equally and ratably payable, without preference, priority or distinction because of date of issue or otherwise from General Revenues.

(d) *Additions to General Revenues.* The University reserves the right to include in General Revenues, at its sole option, in the future, other sources of revenue or income excluded in the definition of General Revenues. The addition of General Revenues shall be evidenced by a certificate executed by the Authorized University Representative identifying the items to be added. To the extent required under the Continuing Disclosure Certificate of the University, the University will file notice regarding any addition of General Revenues consistent with the requirements of Rule 15c2-12 and the applicable Continuing Disclosure Certificate.

(e) *Deletions from General Revenues.* The University reserves the right to remove, at its sole option, in the future, any revenues from General Revenues, so long as no more than 10% of General Revenues (based on the University's most recent audited financial statements) are removed in any fiscal year. The removal of General Revenues shall be evidenced by a certificate executed by the Authorized University Representative identifying the items to be deleted. To the extent required under the Continuing Disclosure Certificate of the University, the University will file notice regarding any removal of General Revenues consistent with the requirements of Rule 15c2-12 and the applicable Continuing Disclosure Certificate.

(f) *Additional Bonds.* The University shall have the right to issue one or more series of Additional Bonds for University purposes as permitted under the Bond Act or otherwise under State law. The University reserves the right to issue obligations payable from or secured by a pledge of General Revenues that is subordinate to the pledge and lien on General Revenues as set forth in Section 11(a) of this Resolution for the Bonds, the Prior Bonds and any Additional Bonds to the extent permitted under the Bond Act or otherwise under State law. Nothing herein shall restrict the University's right to enter into obligations in connection with University-Paid State Bonds or any other obligations that are not secured by a pledge of General Revenues.

(g) *Refunding Bonds.* The University shall have the right to issue bonds, including Additional Bonds, to refund or advance refund any Prior Bonds, the Bonds or other obligations as permitted under the Bond Act or otherwise under State law.

Section 12. Covenant of the University. So long as any Bonds are outstanding, the University covenants to pay or cause to be paid the principal of and the interest on all outstanding Bonds on the dates, at the places, from the sources of funds and in the manner, all as provided herein.

Section 13. Defeasance. In the event that the University, in order to effect the payment, retirement or redemption of any Bond, sets aside in the Bond Fund or in another special account, cash or noncallable Government Obligations, or any combination of cash and/or noncallable Government Obligations, in amounts and maturities which, together with the known earned income therefrom, are sufficient to redeem or pay and retire such Bond in accordance with its terms and to pay when due the interest and redemption premium, if any, thereon, and such cash and/or noncallable Government Obligations are irrevocably set aside and pledged for such purpose, then no further payments need be made into the Bond Fund for the payment of the principal of and interest on such Bond. The owner of a Bond so provided for shall cease to be entitled to any lien, benefit or security of this Resolution except the right to receive payment of principal, premium, if any, and interest from the Bond Fund or such special account, and such Bond shall be deemed to be not outstanding under this Resolution.

The University shall give written notice of defeasance to the owners of all Bonds so provided for within 20 days of the defeasance and to each party entitled to receive notice in accordance with any related Continuing Disclosure Certificate.

Section 14. Sale of the Bonds; Official Statement. The Board has determined that it would be in the best interest of the University to delegate to the Authorized University Representative for a limited time the authority to determine the method of sale and to approve the final interest rates, maturity dates, redemption terms and principal maturities for the Bonds. The Authorized University Representative may also determine whether the Bonds shall be issued in one or more series and to determine whether the Bonds (or the Bonds of a series) shall be issued as Taxable Bonds or Tax-Exempt Bonds.

(a) *Competitive Bond Sale.* If the Authorized University Representative determines that all or a portion of the Bonds are to be sold at a competitive public sale, the Authorized University Representative or his or her designee shall: (1) establish the date of the public sale; (2) establish the criteria by which the successful bidder will be determined; (3) request that a good faith deposit in the amount determined to be necessary, if any, accompany each bid; (4) cause notice of the public sale to be given (the "Notice of Sale"); and (5) provide for such other matters pertaining to the public sale as he or she deems necessary or desirable. The Authorized University Representative shall cause the Notice of Sale to be given and provide for such other matters pertaining to the public sale as he or she deems necessary or desirable.

Upon the date and time established for the receipt of bids for Bonds, the Authorized University Representative or his or her designee shall open the bids and shall cause the bids to be mathematically verified. Such Bonds shall be sold to the bidder offering to purchase them at the lowest true interest cost to the University; *provided, however,* that the Authorized University Representative may reserve the right to reject any and all bids for Bonds and also may waive an irregularity or informality in any bid.

Subject to the terms and conditions set forth in this Section 14, the Authorized University Representative is hereby authorized to accept one or more Approved Bid for the Bonds in one or more series upon his or her approval of the final interest rates, maturity dates, aggregate principal amounts, principal maturities, and redemption rights set forth therein in accordance with the authority granted by this section so long as:

1. the aggregate principal amount of the Bonds does not exceed \$74,675,000;
2. the final maturity date for the Bonds is no later than 32 years after their date of issuance; and
3. the true interest cost for the Bonds (in the aggregate) does not exceed 5.25%.

(b) *Negotiated Bond Sale.* If the Authorized University Representative determines that all or a portion of the Bonds are to be sold by negotiated sale, the Authorized University Representative shall solicit bond underwriting proposals and shall select the Underwriter(s) that submits the proposal that he or she determines is in the best interest of the University. The Bonds shall be sold to the Underwriter(s) pursuant to the terms of one or more Bond Purchase Contracts.

Subject to the terms and conditions set forth in this Section 14, the Authorized University Representative is hereby authorized to enter into such Bond Purchase Contracts for the issuance and sale of the Bonds in one or more series upon the approval by the Authorized University Representative of the final interest rates, maturity dates, aggregate principal amounts, principal maturities, and redemption rights set forth therein for the Bonds in accordance with the authority granted by this section so long as:

1. the aggregate principal amount of the Bonds does not exceed \$74,675,000;

2. the final maturity date for the Bonds is no later than 32 years after their date of issuance; and
3. the true interest cost for the Bonds (in the aggregate) does not exceed 5.25%.

(c) *Report to Board; Expiration of Authority.* Following the sale of the Bonds, the Authorized University Representative shall provide a report to the Board, describing the final terms of the Bonds approved pursuant to the authority delegated in this section.

The authority granted to the Authorized University Representative by this Section 14 shall expire June 30, 2018. If an Approved Bid or Bond Purchase Contract has not been accepted by such date, the authorization for the issuance of the Bonds shall be rescinded, and the Bonds shall not be issued nor their sale approved unless such Bonds shall have been re-authorized by resolution of the Board. The resolution re-authorizing the issuance and sale of such Bonds may be in the form of a new resolution repealing this Resolution in whole or in part or may be in the form of an amendatory resolution approving a bond purchase contract or establishing terms and conditions for the authority delegated under this Section 14.

(d) *Delivery of Bonds; Documentation.* Upon the passage and approval of this Resolution, the proper officials of the University, including the Authorized University Representative, are authorized and directed to undertake all action necessary for the prompt execution and delivery of the Bonds to the Underwriter(s) and further to execute and deliver all closing certificates and documents required to effect the closing and delivery of the Bonds.

(e) *Preliminary and Final Official Statements.* The Authorized University Representative is authorized to ratify and to approve for purposes of the Rule, including compliance with Section (b)(1) of the Rule, on behalf of the University, an Official Statement for each series (and any preliminary Official Statement) and any supplement thereto relating to the issuance and sale of each series of the Bonds and the distribution of each series of the Bonds pursuant thereto with such changes, if any, as may be deemed by him or her to be appropriate.

Section 15. Undertaking to Provide Ongoing Disclosure. The Authorized University Representative is authorized to, in his or her discretion, execute and deliver one or more Continuing Disclosure Certificates in order to assist the Underwriter(s) for Bonds in complying with Section (b)(5) of the Rule.

Section 16. Establishment of Additional Accounts and Subaccounts. The University reserves the right, to be exercised in its sole discretion, to establish such additional accounts within the funds established pursuant to this Resolution, and subaccounts within such accounts, as it deems necessary or useful for the purpose of identifying more precisely the sources of payments herein and disbursements therefrom; provided that the establishment of any such account or subaccount does not alter or modify any of the requirements of this Resolution with respect to a deposit or use of money or result in commingling of funds not permitted hereunder.

Section 17. Lost or Destroyed Bonds. If any Bonds are lost, stolen or destroyed, the Bond Registrar may authenticate and deliver a new Bond or Bonds of like amount, maturity and tenor to the Registered Owner upon the owner paying the expenses and charges of the Bond Registrar and the University in connection with preparation and authentication of the replacement Bond or Bonds and upon his or her filing with the Bond Registrar and the University evidence satisfactory to both that such Bond or Bonds were actually lost, stolen or destroyed and of his or her ownership, and upon furnishing the University and the Bond Registrar with indemnity satisfactory to both.

Section 18. No Recourse Against Individuals. No Registered Owner shall have any recourse for the payment of any part of the principal of, premium, if any, or redemption price, if any, of or interest on the Bonds, or for the satisfaction of any liability arising from, founded upon, or existing by reason of, the issuance or ownership of such Bonds against any past, present or future officer, director, trustee, employee or agent of the University or any past, present or future officer, director, trustee or member of the Board in their individual capacities.

Section 19. General Authorization; Ratification of Prior Acts. The Chair of the Board and Authorized University Representative, and other appropriate officers of the University are authorized to take any actions and to execute and deliver documents as in their judgment may be necessary or desirable in order to carry out the terms of, and complete the transactions contemplated by, this Resolution. All acts taken pursuant to the authority of this Resolution but prior to its effective date are hereby ratified.

Section 20. Severability. If any provision in this Resolution is declared by any court of competent jurisdiction to be contrary to law, then such provision shall be null and void and shall be deemed separable from the remaining provisions of this Resolution and shall in no way affect the validity of the other provisions of this Resolution or of the Bonds.

Section 21. Amendments. This Resolution may be amended or supplemented by a supplemental resolution without the consent of any Beneficial Owner or Registered Owner for any one or more of the following purposes:

- (a) To cure any ambiguity or formal defect or omission in this Resolution;
- (b) To add to the covenants and agreements of the University in this Resolution, other covenants and agreements to be observed by the University that are not contrary to or inconsistent with this Resolution as in effect;
- (c) To authorize issuance of Additional Bonds or subordinate obligations payable from or secured by General Revenues;
- (d) To modify, amend or supplement this Resolution or any supplemental resolution to qualify under the Trust Indenture Act of 1939, as amended, or any similar federal statute hereafter in effect or to permit the

- qualification of any Bonds for sale under the securities laws of any of the states of the United States of America;
- (e) To make such additions, deletions or modifications as may be necessary or desirable to assure exemption from federal income taxation of interest on the Tax-Exempt Bonds;
 - (f) To confirm, as further assurance, any pledge or lien created under this Resolution;
 - (g) To make any change that, in the reasonable judgment of the University, does not materially and adversely affect the rights of the Beneficial Owners or Registered Owners of any outstanding Bonds; or
 - (h) To modify any of the provisions of the Bond Authorization or any supplemental resolution in any other respect whatever, as long as the modification shall take effect only after all affected outstanding Bonds cease to be outstanding.

This Resolution may be amended or supplemented for any other purpose only upon consent of the Registered Owners of not less than fifty one percent (51%) in aggregate principal amount of the Bonds outstanding; provided, however, that no amendment shall be valid without the consent of the Registered Owners of 100 percent (100%) of the aggregate principal amount of the Bonds outstanding that: extends the maturity of any Bond, reduces the rate of interest upon any Bond, extends the time of payment of interest on any Bond, reduces the amount of principal payable on any Bond, or reduces any premium payable on any Bond, without the consent of the affected Registered Owner; or reduces the percent of Registered Owners required to approve amendments to the Resolution.

Section 22. Benefit of Resolution. The covenants and agreements in this Resolution regarding the Bonds are made for the benefit of the Beneficial Owners of the Bonds and shall be enforceable by those Beneficial Owners.

Section 23. Effective Date. This Resolution shall take effect immediately upon adoption by the Board.

Moved by _____
 Seconded by _____
 Dated this [____] day of June, 2017.

**Exhibit A
Bond Form**

[DTC LANGUAGE]

UNITED STATES OF AMERICA

NO. _____ \$ _____

OREGON STATE UNIVERSITY

GENERAL REVENUE BONDS, [2017/2018][_____] [FEDERALLY TAXABLE] [TAX-EXEMPT]

INTEREST RATE: % MATURITY DATE: CUSIP NO.:
 REGISTERED OWNER: CEDE & CO.
 PRINCIPAL AMOUNT:

Oregon State University (the "University"), hereby acknowledges itself to owe and for value received promises to pay to the Registered Owner identified above, or registered assigns, on the Maturity Date identified above, the Principal Amount specified above, unless redeemed prior thereto as provided herein, together with interest on such Principal Amount from _____, 20____, or the most recent date to which interest has been paid or duly provided for, at the Interest Rate set forth above payable _____ 1, 20____, and semiannually thereafter on each _____ 1 and _____ 1 until payment of the principal sum has been made or duly provided for. Both principal of and interest on this bond are payable in lawful money of the United States of America. For so long as the bonds of this issue are held in fully immobilized form, payments of principal and interest thereon shall be made as provided in accordance with the operational arrangements of The Depository Trust Company ("DTC") referred to in the Blanket Issuer Letter of Representations (the "Letter of Representations") from the University to DTC.

This bond is one of an authorized issue of general revenue bonds of the University of like date and tenor, except as to number, interest rate and date of maturity, in the aggregate principal amount of \$ _____, issued pursuant to Resolution No. _____ of the University, passed on _____, 2017 (the "Bond Resolution"), to finance or refinance all or a portion of the costs of University projects and to pay costs of issuance of the Bonds, as further provided in the Bond Resolution. [Pursuant to the Bond Resolution, the University also has authorized the issuance of its General Revenue Bonds, [2017/2018][_____] [(Federally Taxable)] in the aggregate principal amount of \$ _____ for this purpose.]

The bonds of this issue are subject to redemption prior to their stated maturities as provided in the Bond Resolution.

This bond is payable solely from and secured by a pledge of General Revenues and the money and investments deposited into the Bond Fund, and the University does hereby pledge and bind itself to set aside from such General Revenues, and to pay into the Bond Fund described in the Bond Resolution the various amounts required by the Bond Resolution to be paid into and maintained in such Bond Fund, all within the times provided by the Bond Resolution. Bonds issued pursuant to the Bond Resolution, the University's General Revenue Bonds, 2015A and General Revenue Bonds, 2015B (Federally Taxable), the University's General Revenue Bonds, 2016A and General Revenue Bonds, 2016B (Federally Taxable), General Revenue Notes, and additional bonds issued on a parity therewith, shall be equally and ratably payable from and secured by a pledge of General Revenues, and the money and

investments deposited into the Bond Fund, without preference, priority or distinction because of date of issue or otherwise.

[The bonds of this issue are not private activity bonds and are not “qualified tax exempt obligations” eligible for investment by financial institutions within the meaning of Section 265(b) of the Internal Revenue Code of 1986, as amended.]

Reference is made to the Bond Resolution as more fully describing the covenants with and the rights of Registered Owners of the bonds or registered assigns and the meanings of capitalized terms appearing on this bond which are defined in such Resolution.

The issuance of the Bonds has been authorized by the Bond Resolution duly adopted by the University pursuant to the laws of the State of Oregon. This Bond shall not constitute or become an indebtedness, or a debt or liability of the State of Oregon, the Legislative Assembly of the State of Oregon, or any county or city, or other subdivision or body corporate and politic within the State of Oregon or of any other political subdivision or body corporate and politic within the State of Oregon (other than the University, but only to the extent provided in the Bond Resolution) and neither the State of Oregon, the Legislative Assembly of the State of Oregon, nor any county or city or other subdivision of the State of Oregon (other than the University, but only to the extent provided in the Bond Resolution), shall be liable hereon; nor shall this Bond constitute the giving, pledging or loaning of the faith and credit of the State of Oregon, the Legislative Assembly of the State of Oregon, or any county or city, or other subdivision of the State of Oregon or of any other political subdivision or body corporate and politic within the State of Oregon but shall be payable solely from the funds pledged herefor. Neither the State of Oregon, the Legislative Assembly of the State of Oregon, any political subdivision or body corporate and politic within the State of Oregon other than the University shall in any event be liable for the payment of the principal of, premium, if any, or interest on this Bond or for the performance of any pledge, mortgage, obligation or agreement of any kind whatsoever undertaken by the University. No breach of any such pledge, obligation or agreement shall impose any pecuniary liability upon the State of Oregon or any charge upon its general credit or against its taxing power. The University has no taxing powers. The issuance of this Bond shall not, directly or indirectly or contingently, obligate the State of Oregon, or any political subdivision of the State of Oregon, nor empower the University to levy or collect any form of taxes or assessments therefor or to create any indebtedness payable out of taxes or assessments or make any appropriation for the payment of this Bond and such appropriation or levy is prohibited. Nothing in the Bond Act shall be construed to authorize the University to create a debt of the State of Oregon within the meaning of the Constitution or statutes of the State of Oregon.

This bond shall not be valid or become obligatory for any purpose or be entitled to any security or benefit under the Bond Resolution until the Certificate of Authentication hereon shall have been manually signed by the Bond Registrar.

It is hereby certified, recited and represented that the issuance of this bond and the Bonds of this issue is duly authorized by law; that all acts, conditions and things required to exist and necessary to be done or performed precedent to and in the issuance of this bond and the Bonds of this issue to render the same lawful, valid and binding have been properly done and performed and have happened in regular and due time, form and manner as required by law; that all acts, conditions and things necessary to be done or performed by the University or to have happened precedent to and in the execution and delivery of the Bond Resolution have

been done and performed and have happened in regular and due form as required by law; that due provision has been made for the payment of the principal of and premium, if any, and interest on this bond and the Bonds of this issue and that the issuance of this bond and the Bonds of this issue does not contravene or violate any constitutional or statutory limitation.

IN WITNESS WHEREOF, Oregon State University has caused this bond to be executed on behalf of the University with the manual or facsimile signature of the Chair of the Board and to be attested by the manual or facsimile signature of either the Secretary of the Board or the Vice President for Finance and Administration of the University.

OREGON STATE UNIVERSITY

By _____
Chair, Board of Trustees

Attested:

By _____
Secretary, Board of Trustees or
Vice President for Finance
and Administration

The Certificate of Authentication for the Bonds shall be in substantially the following form and shall appear on each Bond:

AUTHENTICATION CERTIFICATE

This bond is one of the Oregon State University General Revenue Bonds, [2017/2018][Federally Taxable] described in the within-mentioned Bond Resolution.

Registrar

By _____
Authorized Signatory
Date _____

CERTIFICATE

I, the undersigned, Secretary of the Board of Trustees (the "Board") of Oregon State University (the "University") and keeper of the records of the Board of the University, DO HEREBY CERTIFY:

1. That the attached resolution is a true and correct copy of Resolution No. _____ of the University (herein called the "Resolution"), as finally passed at a regular meeting of the Board of the University held on the [__] day of June, 2017, and duly recorded in my office.

2. That said meeting was duly convened and held in all respects in accordance with law, and to the extent required by law, due and proper notice of such meeting was given; that a quorum of the Board was present throughout the meeting and a legally sufficient number of members of the Board voted in the proper manner for the passage of said Resolution; that all other requirements and proceedings incident to the proper adoption or passage of said Resolution have been duly fulfilled, carried out and otherwise observed, and that I am authorized to execute this certificate.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the University this [__] of June, 2017.

Secretary