<u>Authorization of New Capital Improvements Projects – Appalachian State University and East Carolina University</u>

Appalachian State University and East Carolina University have requested authority to establish new capital improvements projects.

<u>ASU – Steam Distribution System Replacement and Repair</u>: This project will replace or repair the steam distribution and condensate return lines running along Bodenheimer Drive and from the Steam Plant to the Holmes Center. Work will include associated road, drive, and walk replacement. The project, estimated to cost \$4,500,000 and funded from steam utility trust fund receipts, will be complete by the beginning of fall semester 2015.

<u>ECU – Minges Natatorium Lighting and Acoustical Improvements</u>: This project will make lighting and acoustical improvements at Minges Natatorium (built in 1965, 14,000 square feet, one-story) which is located within the Minges Coliseum complex. Lighting improvements will meet current NCAA light-level standards, improve swimmer safety and enhance facility energy efficiency. Acoustical improvements will include a new curved slat ceiling and spray-on soundproofing material. The project, estimated to cost \$490,000 and funded from athletic receipts, will be complete by August 2014.

It is recommended that these projects be authorized and that the methods of financing as proposed by ASU and ECU be approved.

STATE OF NORTH CAROLINA - DEPARTMENT OF ADMINISTRATION STATE CONSTRUCTION OFFICE

Form OC-25 (Rev 05/12)

PROPOSED REPAIR & RENOVATION OR CAPITAL IMPROVEMENT PROJECT BIENNIUM 2013 - 2015

PROJECT CITY or LOCATION: Appalachian State University, Boone, NC PROJECT DESCRIPTION & JUSTIFICATION: Scope of project includes steam & condensate replacement along Bodenheimer Drive from Appalachian Heights to the existing steam vault located on River St. The Scope of work includes trenching, installing 2400 If of condenstate piping; insulation, 5 new steam trap stations; and repaving. Project includes one bid alternate - to replace 350lf of condensate piping to Walker Hall. (Definitions/explanations are provided on pg 2 to assist in completion of this form.) CURRENT ESTIMATED CONSTRUCTION COST A. Land Requirement B. Site Preparation 1. Demolition (Road/sidewalk) 2. Site Work (trenching) 3. Site Work (paver replacement) Appalachian State University, Boone, NC Acondensate replacement along Bodenheimer Drive from Acondensate replacement along Bodenheimer along Bodenheimer Drive from Acondensate replacement along Bodenheimer Drive from Acondensate replacement along Bodenheimer Drive from Ac	DEPARTMENT and DIVISION:		ASU Physical Plant DATE: 10/21/13						
PROJECT DESCRIPTION & JUSTIFICATION: Scope of project includes steam & condensate replacement along Bodenheimer Drive from Appalachian Heights to the existing steam vault located on River St. The Scope of work includes trenching, installing 2400 if or condensate pipping insulation, 5 new steam trap stations; and repaving. Project includes one bid alternate - to replace 350if of condensate pipping to Walker Hall. Definitions/explanations are provided on pg 2 to assist in completion of this form.) CURRENT ESTIMATED CONSTRUCTION COST QTY UNIT COST PER UNIT TOTAL			SCO ID # 13-10207-01A ASU # 2013007 - Bodenhiemer Drive Condenstate System Upgrade						
Appalachian Heights to the existing steam vault located on River St. The Scope of work includes trenching, installing 2400 if or condensate piping; insulation, 5 new steam trap stations; and repaving. Project includes one bid alternate - to replace 350lf of condensate piping to Walker Hail. Definitions/explanations are provided on pg 2 to assist in completion of this form.)									
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Coefficients Construction Construction Coefficient									
Continuo									ondensate piping to
CURRENT ESTIMATED CONSTRUCTION COST QTY			•	· · · · ·					
CURRENT ESTIMATED CONSTRUCTION COST QTY									
B. Site Preparation	(Definitions/expl	anations are provided on pg 2 to	assist in completion of	this form.)					
B. Site Preparation	CURRENT ES	TIMATED CONSTRUCTION	COST		QTY	UNIT	COST	PER UNIT	TOTAL
B. Site Preparation	A. Land F	Requirement							\$0
2750 F	B. Site Pr	eparation		•				•	
3. Site Work (paver replacement) 8000 sf \$ 25.00 \$200,000	1. De	emolition (Road/sidewalk)			2750	LF	\$	45.00	\$123,750
3. Site Work (paver replacement) 8000 sf \$ 25.00 \$200,000		,			2750	LF	\$	30.00	\$82,500
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2. Building Construction (new space) 3. Building Construction (existing) 4. Plumbing (new space) 5. HVAC (new space) 6. Electrical (includes TV & Radio Studio) 7. Fire Supression and Alarm Systems 8. Telephone, Data, Video 9. Associated Construction Costs (Hazmat allowance) 10. Other: 10. Other: 10. Tirked 2. Moveable 2. Moveable ESTIMATED CONSTRUCTION COSTS ESTIMATED CONSTRUCTION COSTS ESTIMATED CONSTRUCTION COSTS By (% of Estimated Construction Costs) 11. Signal (1.5% estimated Construction Costs) 12. System selection (1.5% estimated Construction Costs) 13. Special (1.5% estimated Construction Costs) 14. Special (1.5% estimated Construction Costs) 15. Special (1.5% estimated Construction				•				•	
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3. Building Construction (existing) 4. Plumbing (new space) 5. HVAC (new space) 6. Electrical (Includes TV & Radio Studio) 7. Fire Supression and Alarm Systems 8. Telephone, Data, Video 9. Associated Construction Costs (Hazmat allowance) 10. Other: Rock Allowance 11. Fixed 1. Fixed 2. Moveable 2. Moveable 2. Moveable 2. Moveable 2. Moveable 3. Telephone, Data, Video 9. Associated Construction Costs 11. Fixed 1. Fixed 2. Moveable 2. Moveable 3. Telephone, Data, Video 9. Associated Construction Costs 10. Other: Rock Allowance 10. Other: Rock Allowance 11. Fixed 2. Moveable 3. Telephone, Data, Video 3. Telephone, Data, Video 1. Fixed 3. Telephone, Data, Video 3. Telephone, Data, Video 3. Telephone, Data, Video 4. Sociated Construction Costs 5. Telephone, Data, Video 9. Sociated Construction Costs 9. (% of Estimated Construction Costs) 9. (% of Estimated Construction Costs) 9. Sociated Construction Costs (% of Construction Costs) 9. Sociated Construction Costs (% of Estimated Construction Costs) 9. Sociation Sustainability 9. (% of Estimated Construction Costs) 9. Sociation Sustainability 9. Sociation		•	e)				<u> </u>		
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7. Fire Supression and Alarm Systems				Ì					\$0
7. Fire Supression and Alarm Systems			Studio)						\$0
8. Telephone, Data, Video 9. Associated Construction Costs (Hazmat allowance) 10. Other: Rock Allowance 11 s \$ 25,000.00 \$25,000 10. Other: Rock Allowance 11 s \$ 33,000.00 \$33,000 D. Equipment 1. Fixed 2. Moveable 2. Moveable 50 ESTIMATED CONSTRUCTION COSTS 11 s \$ 33,000.00 \$33,000 ESTIMATED CONSTRUCTION COSTS 12 Simple Secondary Second									\$0
9. Associated Construction Costs (Hazmat allowance) 10. Other: Rock Allowance 11. S \$ 25,000.00 \$ 325,000 11. S \$ 33,000.00 \$ 333,000 D. Equipment 1. Fixed 2. Moveable ESTIMATED CONSTRUCTION COSTS Items below may be calculated by percentage or lump sum. If using lump sum, make entry in \$ field. DESIGN FEE 9 % (% of Estimated Construction Costs) PRECONSTRUCTION COSTS COMMISSIONING % (0.5% simple; 1.0% moderate; 1.5% complex) \$ \$94,500 PRECONSTRUCTIONS/MATERIALS \$ 1.25 % (1.25% estimated) \$ \$13,125.00 SUSTAINABILITY % (3% LEED Gold, 2% LEED Silver) Includes programming, feasibility, analysis ADVANCE PLANNING % (% of Estimated Construction Costs) \$ \$0 CONTINGENCIES 5 % (% of Estimated Construction Costs [3% New or 5% R&R]) \$ \$52,500 ESTIMATED COSTS % of Estimated Construction Costs - Contingencies + Design Fee) \$ \$1,157,625 ESCALATION COST Increase 9 %; 18-23 mos = .12%; 36-47 mos = .16%; 48-60 mos = .38%; 48-60 mos = .38% ESCALATION COST INCREASE (Total of Estimated Costs × Escalation %) TOTAL ESTIMATED PROJECT COSTS (Estimated Costs × Escalation Cost Increase) APPROVED BY: ITILE DATE DAT									
1 S \$33,000.00 \$33,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$33,000 \$30		•	Hazmat allowance)		1	ls	\$	25,000.00	\$25,000
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Items below may be calculated by percentage or lump sum. If using lump sum, make entry in \$ field. DESIGN FEE 9 % (% of Estimated Construction Costs) \$94,500 PRECONSTRUCTION COSTS % (% of Estimated Construction Costs [1% for CM@Risk]) \$0 COMMISSIONING % (0.5% simple; 1.0% moderate; 1.5% complex) \$0 SPECIAL INSPECTIONS/MATERIALS 1.25 % (1.25% estimated) \$13,125.00 SUSTAINABILITY (3% LEED Gold, 2% LEED Silver) \$0 Includes programming, feasibility, analysis \$0 ADVANCE PLANNING % (% of Estimated Construction Costs) \$0 CONTINGENCIES 5 % (% of Estimated Construction Costs [3% New or 5% R&R]) \$52,500 ESTIMATED COSTS (% of Estimated Construction Costs + Contingencies + Design Fee) \$1,157,625 Escalation = percent per month multiplied by number of months % per month \$6 General Bidgs: 0.17 mos = 0%; 18-23 mos = .04%; 24-35 mos = .12%; 36-47 mos = .16%; 48-60 mos = .18% Health Bidgs: 0.5 mos = .18%; 6-11 mos = .22 %; 12-17 mos = .26%; 18-23 mos = .29%; 24-35 mos = .38%; 36-47 mos = .36%; 48-60 mos = .38% ESCALATION COST INCREASE (Total of Estimated Costs x Escalation %) \$0 TOTAL ESTIMATED PROJECT COSTS (Estimated Costs x Escalation Cost Increase) \$1,157,625 TITLE DATE	2. Mo	oveable							\$0
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(From Est. Date to mid-point of construction) =		`		iangonoloo - Bot	oig.i i 00)			L	¥ 1,101,000
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APPROVED BY: TITLE DATE		`		,	ease)				<u> </u>
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STATE OF NORTH CAROLINA - DEPARTMENT OF ADMINISTRATION STATE CONSTRUCTION OFFICE

Form OC-25 (Rev 05/12)

PROPOSED REPAIR & RENOVATION OR CAPITAL IMPROVEMENT PROJECT BIENNIUM 2013 - 2015

DEFINITIONS OR EXPLANATIONS

(Items not listed below are presumed to be self-explanatory. Questions may be directed to the State Construction Office.)

Item on Form

Definition/Explanation

CURRENT ESTIMATED CONSTRUCTION COST	Attach basis and justification for estimate. Include description, quantities, units, special
A. Land Requirement	Includes purchase and acquisition costs (title search, filing fees, other legal fees, etc.)
B. 1. Demolition	Includes but may not be limited to lead and/or asbestos testing and removal, building or interior space demolition in whole or part.
B. 2. Site Work	Includes but may not be limited to grading, excavating, poor soils and/or rock removal, utilities relocation, roads, walks, parking, streambank repairs, stormwater management, retaining walls, rainwater harvesting systems, landscaping.
C. 1. Utility Services	Attach explanation of any special building, mechanical, or electrical service requirements with appropriate distance to existing buildings, water, gas, electrical or other utility service.
C. 9. Associated Construction Costs	Includes but may not be limited to construction fire alarm testing, utility shut downs, utilities, signage, security, displaced parking, staging, lock cores, keys, State Construction Office charges.
C. 10. Other	List other signficant sources of cost not included elsewhere. Additional lines may be added if needed.
PRECONSTRUCTION COSTS	Includes but may not be limited to land surveys, lead/asbestos surveys, environmental assessments, copying, postage, costs of print advertising, and destructive testing. For CM at Risk, preconstruction costs are consistent with the requirements of the preconstruction services agreement.
CONTINGENCIES	Unanticipated or unforseen conditions including but not limited to design error and omissions, concealed site conditions, utility conflicts, and extended overhead resulting from weather or other delay.

STATE OF NORTH CAROLINA - DEPARTMENT OF ADMINISTRATION STATE CONSTRUCTION OFFICE PROPOSED REPAIR & RENOVATION OR CAPITAL IMPROVEMENT PROJECT

Form OC-25 (Rev 05/12)

BIENNIUM 2013 - 2015

DEPA	RTMENT and DIVISION:	ASU Physical Plan	nt				DATE:	10/21/13	
PROJECT IDENTIFICATION: ASU # 2013008 - Steam and Cor				ondensate Upgrade from Central Steam Plant to Holms Convocation					
PROJ	ECT CITY or LOCATION:	one, NC							
includ	ECT DESCRIPTION & JUSTIFICAT es replecement of 280 LF of steam a	and condensate lines a	and is estimate		•				
steam	plant to the Holmes Center and is e	stimated to cost \$2.2N	1.						
(D : C : :	Constant and Constant and Challenger	ta a sa sa Cara a sa sa la Para a s	f dele fermi						
	tions/explanations are provided on pg 2 RENT ESTIMATED CONSTRUCTIO	·	r this form.)	QTY	UNIT		PER UNIT	TOTAL	
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л. В.	Site Preparation				1				ΨΟ
٥.	Demolition (Road/sidewalk)			1000	l F	\$	50.00		\$50,000
	Site Work (trenching)			1000		\$	30.00		\$30,000
	3. Site Work (paver replacement)			8000		\$	25.00		200,000
C.	Construction								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Utility Services			1000	lf	\$	1,600.00	\$1.	600,000
	2. Building Construction (new sp	ace)					,	* /	\$0
	3. Building Construction (existing	,							\$0
	4. Plumbing (new space)			1500	lf	\$	600.00	\$	900,000
	HVAC (new space)								\$0
	6. Electrical (Includes TV & Radi								\$0
	7. Fire Supression and Alarm Sy	stems							\$0
	8. Telephone, Data, Video								\$0
	Associated Construction Costs	,			ls	\$	30,000.00		\$30,000
_	10. Other: Rock All	lowance	_	1	ls	\$	50,000.00		\$50,000
D.	Equipment				1	1			
	1. Fixed								\$0
FOTI	2. Moveable							•	\$0
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	elow may be calculated by percentage or SN FEE			ed Construction C	anta\		Г	•	286,000
	ONSTRUCTION COSTS			ed Construction C		M@D:ak		Ψ	\$0
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CONT	INGENCIES	5 %	(% of Estimate	ed Construction C	osts [3% Nev	v or 5% R	&R])	\$	143,000
ESTIN	MATED COSTS (% of Estimated 0	Construction Costs + Cor	ntingencies + De	esign Fee)				\$3,	181,750
Escala	ation = percent per month multiplied b	by number of months					_		
(From	Est. Date to mid-point of construction)) =		months		% per m	nonth		
General	Bldgs: 0-17 mos = 0%; 18-23 mos = .04%; 24-3	35 mos = .12%; 36-47 mos = .	16%; 48-60 mos =	.18%		_			
Health E	Bldgs: 0-5 mos = .18%; 6-11 mos = .22 %; 12-17	mos = .26%; 18-23 mos = .2	9%; 24-35 mos = .:	33%; 36-47 mos = .3	6%; 48-60 mos	= .38%	_		
ESCA	LATION COST INCREASE (Total or	f Estimated Costs x Es	calation %)						\$0
TOTA	AL ESTIMATED PROJECT COSTS	S (Estimated Costs + Es	scalation Cost Inci	rease)				\$3,	181,750
APPR	OVED BY:			TITLE				DATE	
	(Governing Board or Age	ncy Head)				-			

STATE OF NORTH CAROLINA - DEPARTMENT OF ADMINISTRATION STATE CONSTRUCTION OFFICE

Form OC-25 (Rev 05/12)

PROPOSED REPAIR & RENOVATION OR CAPITAL IMPROVEMENT PROJECT BIENNIUM 2013 - 2015

DEFINITIONS OR EXPLANATIONS

(Items not listed below are presumed to be self-explanatory. Questions may be directed to the State Construction Office.)

Item on Form

Definition/Explanation

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B. 1. Demolition	Includes but may not be limited to lead and/or asbestos testing and removal, building or interior space demolition in whole or part.
B. 2. Site Work	Includes but may not be limited to grading, excavating, poor soils and/or rock removal, utilities relocation, roads, walks, parking, streambank repairs, stormwater management, retaining walls, rainwater harvesting systems, landscaping.
C. 1. Utility Services	Attach explanation of any special building, mechanical, or electrical service requirements with appropriate distance to existing buildings, water, gas, electrical or other utility service.
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C. 10. Other	List other signficant sources of cost not included elsewhere. Additional lines may be added if needed.
PRECONSTRUCTION COSTS	Includes but may not be limited to land surveys, lead/asbestos surveys, environmental assessments, copying, postage, costs of print advertising, and destructive testing. For CM at Risk, preconstruction costs are consistent with the requirements of the preconstruction services agreement.
CONTINGENCIES	Unanticipated or unforseen conditions including but not limited to design error and omissions, concealed site conditions, utility conflicts, and extended overhead resulting from weather or other delay.

STATE OF NORTH CAROLINA - DEPARPMENTO XAD MINISTRATION STATE CONSTRUCTION OFFICE

Form OC-25 (Rev 05/12)

PROPOSED REPAIR & RENOVATION OR CAPITAL IMPROVEMENT PROJECT BIENNIUM 2013 - 2015

DEPARTMENT and DIVISION: East Carolina Univ	versity		DATE:	10/14/13
	n Lighting and Acoustical Impr	ovements	•	
PROJECT CITY or LOCATION: Greenville, NC	N () () () () ()	A.F.		
PROJECT DESCRIPTION & JUSTIFICATION: The existing Ming	_		• •	-
approximately 14,000 SF is size. Planned renovation is for light	•		•	-
Natatorium. Lighting upgrades included are for improved cover				
maintenance access. Acoustical upgrades included are for new		•	•	•
spray-on soundproofing on remaining ceiling and wall surfaces to	to replace original deteriorating	g sound pane	els and associated con	crete repairs.
/Definitions/symbolished are provided as as 2 to assist in semalation of	f this form \			
(Definitions/explanations are provided on pg 2 to assist in completion o CURRENT ESTIMATED CONSTRUCTION COST	QTY	UNIT	COST PER UNIT	TOTAL
A. Land Requirement	Q I I	UNII	COSTFERUNII	**************************************
B. Site Preparation				ΨΟ
1. Demolition				\$2,838
2. Site Work				\$0
C. Construction		<u> </u>		Ψ
Utility Services				\$0
Building Construction (Accoustical Improvements)	1	LS	\$ 200,000.00	\$200,000
4. Plumbing			Ψ 200,000.00	\$0
5. HVAC				\$0
Electrical (Lighting Improvements)	1	LS	\$ 220,000.00	\$220,000
7. Fire Supression and Alarm Systems			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$0
8. Telephone, Data, Video				\$0
Associated Construction Costs				\$0
10. Other: Concrete Repair & Coating	1	LS		\$20,000
D. Equipment				
1. Fixed				\$0
2. Moveable				\$0
ESTIMATED CONSTRUCTION COSTS			Į	\$442,838
Items below may be calculated by percentage or lump sum. If using lump \ensuremath{Sum}	sum, make entry in \$ field.			
	/// (F //		ſ	фог 000
DESIGN FEE 5.65 %	`			\$25,020
	(% of Estimated Construction C			\$0
COMMISSIONING %	1 '	1.5% complex)	\$0 \$0
	(1.25% estimated)			\$0
SUSTAINABILITY%	(3% LEED Gold, 2% LEED Silv			\$0
•	Includes programming, feasibilit			•
ADVANCE PLANNING%	(% of Estimated Construction C	osts)		\$0
CONTINGENCIES 5 %	(% of Estimated Construction C	osts [3% New	or 5% R&R])	\$22,142
	(•	1,	. ,
ESTIMATED COSTS (% of Estimated Construction Costs + Con	ntingencies + Design Fee)			\$490,000
Escalation = percent per month multiplied by number of months	3		L	·
(From Est. Date to mid-point of construction) =	10 months	0	% per month	
General Bldgs: 0-17 mos = 0%; 18-23 mos = .04%; 24-35 mos = .12%; 36-47 mos =	: .16%; 48-60 mos = .18%		· '	
Health Bldgs: 0-5 mos = .18%; 6-11 mos = .22 %; 12-17 mos = .26%; 18-23 mos = .3	29%; 24-35 mos = .33%; 36-47 mos = .	36%; 48-60 mos	= .38%	
ESCALATION COST INCREASE (Total of Estimated Costs x Es	scalation %)			\$0
TOTAL ESTIMATED PROJECT COSTS (Estimated Costs + Es	scalation Cost Increase)		ſ	\$490,000
(Estimated Costs + Estimated C	ocaidiion cool iiiciease)		<u> </u>	ψ 1 00,000
APPROVED BY:	TITLE Director, F	acilities Engine	ering & Arch Ser	DATE

(Governing Board or Agency Head)

STATE CONSTRUC**AROR ENDICE** D

PROPOSED REPAIR & RENOVATION OR CAPITAL IMPROVEMENT PROJECT BIENNIUM 2013 - 2015

DEFINITIONS OR EXPLANATIONS

(Items not listed below are presumed to be self-explanatory. Questions may be directed to the State Construction Office.)

Item on Form

Definition/Explanation

CURRENT ESTIMATED CONSTRUCTION COST	Attach basis and justification for estimate. Include description, quantities, units, special
A. Land Requirement	Includes purchase and acquisition costs (title search, filing fees, other legal fees, etc.)
B. 1. Demolition	Includes but may not be limited to lead and/or asbestos testing and removal, building or interior space demolition in whole or part.
B. 2. Site Work	Includes but may not be limited to grading, excavating, poor soils and/or rock removal, utilities relocation, roads, walks, parking, streambank repairs, stormwater management, retaining walls, rainwater harvesting systems, landscaping.
C. 1. Utility Services	Attach explanation of any special building, mechanical, or electrical service requirements with appropriate distance to existing buildings, water, gas, electrical or other utility service.
C. 9. Associated Construction Costs	Includes but may not be limited to construction fire alarm testing, utility shut downs, utilities, signage, security, displaced parking, staging, lock cores, keys, State Construction Office charges.
C. 10. Other	List other signficant sources of cost not included elsewhere. Additional lines may be added if needed.
PRECONSTRUCTION COSTS	Includes but may not be limited to land surveys, lead/asbestos surveys, environmental assessments, copying, postage, costs of print advertising, and destructive testing. For CM at Risk, preconstruction costs are consistent with the requirements of the preconstruction services agreement.
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