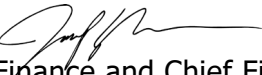


June 25, 2025

TO: Members of the Board of Trustees

FROM: Jeffrey P. Geoghegan, CPA 
Executive Vice President for Finance and Chief Financial Officer

RE: Project Budget for Boiler Plant Equipment Replacement and Utility Tunnel
Connection (Revised Final: \$46,500,000)

RECOMMENDATION:

That the Board of Trustees approve the Revised Final Budget of \$46,500,000, as detailed in the attached project budget, for the Boiler Plant Equipment Replacement and Utility Tunnel Connection project. This reflects an increase of \$3,500,000 over the previously approved budget of \$43,000,000. The Administration recommends that the Board of Trustees adopt the Resolution below.

RESOLUTION:

"Be it resolved that the Board of Trustees approve the use of \$46,500,000 in UCONN 2000 bond funds for the Boiler Plant Equipment Replacement and Utility Tunnel Connection project."

BACKGROUND:

This project has been implemented in 3 phases.

Phase 1 was for the pre-purchase of 3 factory-fabricated, dual fuel water-tube boilers. Early purchase of the boilers was necessary to meet the project construction schedule due to the long lead time required to fabricate the boilers. Phase 1 was completed in Spring 2021.

Phase 2 was to complete utility tunnel interconnections between the future Supplemental Utility Plant (SUP) and the existing Central Utility Plant (CUP). Work included extension of the steam, chilled water, and electrical connections from their current locations within the existing "North Utility Tunnel" at the northeast corner of the UTEB building into the CUP and extension of the existing electrical distribution system. Additionally, three existing steam boilers currently located at the CUP, historically used as backup boilers during periods that the Cogeneration turbines were inoperative, were decommissioned and demolished. The existing boilers were inefficient; required extensive maintenance to stay operational and replacement parts were difficult to obtain or are no longer manufactured. Additionally, the University was notified by CT DEEP that the boilers were required to be de-commissioned by June 2023 due to non-compliance with regulatory emissions restrictions. Phase 2 was completed in Spring 2022.

Phase 3 replaces the existing aged boilers decommissioned and removed in Phase 2. The project intent is to install one of the replacement boilers in the SUP and two in the CUP. The two new boilers in the CUP were completed in spring 2022, while the installation of the SUP boiler is on-going.

The Revised Final budget increases the project costs by \$3,500,000. The additional project cost is for work needed to correct code and safety deficiencies discovered by a third-party independent Engineer. It is anticipated that corrective work may continue into 2026 as some work must be completed during the annual campus-wide steam shutdown.

This work is necessary to ensure continued safe and code-compliant operation of essential heating infrastructure.

The Revised Final Budget is attached for your information.

Attachment

CAPITAL PROJECT BUDGET REPORTING FORM

TYPE BUDGET: REVISED FINAL

PROJECT NAME: BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY TUNNEL CONNECTION

	APPROVED PLANNING 3/21/2019	APPROVED REVISED PLANNING 4/24/2019	APPROVED DESIGN 8/14/2019	APPROVED FINAL 2/26/2020	APPROVED REVISED FINAL 6/28/2023	PROPOSED REVISED FINAL 6/25/2025
<u>BUDGETED EXPENDITURES</u>						
	PRC					
CONSTRUCTION	\$ -	\$ -	\$ 600,000	\$ 29,200,000	\$ 34,900,000	\$ 38,400,000
DESIGN SERVICES	350,000	870,000	1,050,000	2,000,000	2,000,000	2,000,000
TELECOMMUNICATIONS	-	-	-	-	-	-
FURNITURE, FIXTURES AND EQUIPMENT	-	-	-	-	-	-
CONSTRUCTION ADMINISTRATION	40,000	100,000	100,000	1,200,000	1,200,000	1,200,000
OTHER AE SERVICES (including Project Management)	25,000	125,000	150,000	2,000,000	2,150,000	2,150,000
ART	-	-	-	-	-	-
RELOCATION	-	-	-	-	-	-
ENVIRONMENTAL	5,000	5,000	160,000	550,000	550,000	550,000
INSURANCE AND LEGAL	5,000	10,000	10,000	50,000	50,000	50,000
MISCELLANEOUS	5,000	10,000	30,000	-	-	-
OTHER SOFT COSTS	-	-	-	-	-	-
SUBTOTAL	\$ 430,000	\$ 1,120,000	\$ 2,100,000	\$ 35,000,000	\$ 40,850,000	\$ 44,350,000
PROJECT CONTINGENCY	50,000	130,000	200,000	5,000,000	2,150,000	2,150,000
TOTAL BUDGETED EXPENDITURES	\$ 480,000	\$ 1,250,000	\$ 2,300,000	\$ 40,000,000	\$ 43,000,000	\$ 46,500,000
<u>SOURCE(S) OF FUNDING*</u>						
UCONN 2000 BOND FUNDS	\$ 480,000	\$ 1,250,000	\$ 2,300,000	\$ 40,000,000	\$ 43,000,000	\$ 46,500,000
TOTAL BUDGETED FUNDING	\$ 480,000	\$ 1,250,000	\$ 2,300,000	\$ 40,000,000	\$ 43,000,000	\$ 46,500,000

* This budget reflects the University's current intended source(s) of funding for the specified project. The University may adjust this funding plan in order to ensure compliance with applicable federal and state law(s) or to strategically utilize all fund sources, within the approved budget amount, as appropriate.

**BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY
TUNNEL CONNECTION**
Project Budget (REVISED FINAL)
June 25, 2025




Existing Central Utility Plant



Basis of Design Water-Tube Boiler

June 28, 2023

TO: Members of the Board of Trustees

FROM: Jeffrey P. Geoghegan, CPA 
Executive Vice President for Finance and Chief Financial Officer

RE: Project Budget for Boiler Plant Equipment Replacement and Utility Tunnel
Connection (Revised Final: \$43,000,000)

RECOMMENDATION:

That the Board of Trustees approve the Revised Final Budget of \$43,000,000, as detailed in the attached project budget, for the Boiler Plant Equipment Replacement and Utility Tunnel Connection project. The Administration recommends that the Board of Trustees adopt the Resolution below.

RESOLUTION:

“Be it resolved that the Board of Trustees approve the use of \$43,000,000 in UCONN 2000 bond funds for the Boiler Plant Equipment Replacement and Utility Tunnel Connection project.”

BACKGROUND:

This project has been implemented in 3 phases.

Phase 1 was for the pre-purchase of 3 factory-fabricated, dual fuel water-tube boilers. Early purchase of the boilers is necessary to meet the project construction schedule due to the long lead time required to fabricate the boilers. Phase 1 was completed in Spring 2021.

Phase 2 was to complete utility tunnel interconnections between the future Supplemental Utility Plant (SUP) and the existing Central Utility Plant (CUP). Work included extension of the steam, chilled water, and electrical connections from their current locations within the existing “North Utility Tunnel” at the northeast corner of the UTEB building into the CUP and extension of the existing electrical distribution system. Additionally, three existing steam boilers currently located at the CUP, historically used as backup boilers during periods that the Cogeneration turbines were inoperative, were decommissioned and demolished. The existing boilers were inefficient; required extensive maintenance to stay operational and; replacement parts were difficult to obtain or are no longer manufactured. Additionally, the University was notified by CT DEEP that the boilers were required to be de-commissioned by June 2023 due to non-compliance with regulatory emissions restrictions. Phase 2 was completed in Spring 2022.

Phase 3 replaces the existing aged boilers decommissioned and removed in Phase 2. The project intent is to install one of the replacement boilers in the SUP and two in the CUP. The two new boilers in the CUP were completed in spring 2022, while the installation of the SUP boiler is ongoing.

The Revised Final budget increases the project costs by \$3,000,000. The additional project cost is due to material price increases and schedule delays/extension due to the Covid pandemic. The project phases were bid near the beginning of the pandemic and the original construction schedule completion was extended from 2022 to 2023 due to manufacturing delays and material shortages.

The Revised Final Budget is attached for your information.

Attachment

CAPITAL PROJECT BUDGET REPORTING FORM

TYPE BUDGET: REVISED FINAL

PROJECT NAME: BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY TUNNEL CONNECTION

	APPROVED PLANNING <u>3/21/2019</u>	APPROVED REVISED PLANNING <u>4/24/2019</u>	APPROVED DESIGN <u>8/14/2019</u>	APPROVED FINAL <u>2/26/2020</u>	PROPOSED REVISED FINAL <u>6/28/2023</u>
<u>BUDGETED EXPENDITURES</u>					
	PRC				
CONSTRUCTION	\$ -	\$ -	\$ 600,000	\$ 29,200,000	\$ 34,900,000
DESIGN SERVICES	350,000	870,000	1,050,000	2,000,000	2,000,000
TELECOMMUNICATIONS	-	-	-	-	-
FURNITURE, FIXTURES AND EQUIPMENT	-	-	-	-	-
CONSTRUCTION ADMINISTRATION	40,000	100,000	100,000	1,200,000	1,200,000
OTHER AE SERVICES (including Project Management)	25,000	125,000	150,000	2,000,000	2,150,000
ART	-	-	-	-	-
RELOCATION	-	-	-	-	-
ENVIRONMENTAL	5,000	5,000	160,000	550,000	550,000
INSURANCE AND LEGAL	5,000	10,000	10,000	50,000	50,000
MISCELLANEOUS	5,000	10,000	30,000	-	-
OTHER SOFT COSTS	-	-	-	-	-
SUBTOTAL	\$ 430,000	\$ 1,120,000	\$ 2,100,000	\$ 35,000,000	\$ 40,850,000
PROJECT CONTINGENCY	50,000	130,000	200,000	5,000,000	2,150,000
TOTAL BUDGETED EXPENDITURES	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>	<u>\$ 2,300,000</u>	<u>\$ 40,000,000</u>	<u>\$ 43,000,000</u>
<u>SOURCE(S) OF FUNDING*</u>					
UCONN 2000 BOND FUNDS	\$ 480,000	\$ 1,250,000	\$ 2,300,000	\$ 40,000,000	\$ 43,000,000
TOTAL BUDGETED FUNDING	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>	<u>\$ 2,300,000</u>	<u>\$ 40,000,000</u>	<u>\$ 43,000,000</u>


* This budget reflects the University's current intended source(s) of funding for the specified project. The University may adjust this funding plan in order to ensure compliance with applicable federal and state law(s) or to strategically utilize all fund sources, within the approved budget amount, as appropriate.

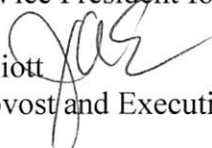


UNIVERSITY OF CONNECTICUT

February 26, 2020

TO: Members of the Board of Trustees

FROM: Scott A. Jordan 
Executive Vice President for Administration and Chief Financial Officer

John A. Elliott 
Interim Provost and Executive Vice President for Academic Affairs

RE: Project Budget for Boiler Plant Equipment Replacement and Utility Tunnel Connection (Final: \$40,000,000)

RECOMMENDATION:

That the Board of Trustees approve the Final Budget of \$40,000,000, as detailed in the attached project budget, for the Boiler Plant Equipment Replacement and Utility Tunnel Connection, for Construction. The Administration recommends that the Board of Trustees adopt the Resolution below.

RESOLUTION:

“Be it resolved that the Board of Trustees approve the use of \$40,000,000 in UCONN 2000 bond funds for Boiler Plant Equipment Replacement and Utility Tunnel Connection.”

BACKGROUND:

This project will be implemented in three (3) phases.

Phase 1 is for the pre-purchase of three (3) factory-fabricated, dual-fuel water-tube boilers. Early purchase of the boilers is necessary to meet the project construction schedule due to the long lead time required to fabricate the boilers. The existing 1960s vintage CUP boilers are inefficient; require extensive maintenance to stay operational and; replacement parts are difficult to obtain or are no longer manufactured. Additionally, CT DEEP notified the University that the boilers are to be de-commissioned by June 2023 due to non-compliance with revised more stringent emissions regulations. The new efficient boilers will reduce greenhouse gas emissions by 3.5% - 5.25% from current levels.

Phase 2 will complete the utility tunnel interconnections between the future Supplemental Utility Plant (SUP) and the existing Central Utility Plant (CUP). Work includes extension of the steam, chilled water, and electrical connections from their current locations within the existing “North

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Utility Tunnel” at the northeast corner of the UTEB building into the CUP and extension of the existing electrical distribution system. Four (4) existing steam boilers located at the CUP will be decommissioned and demolished in preparation for Phase 3. These boilers are required to provide heating steam during periods that the Cogeneration turbines are not available to provide sufficient recovered exhaust heat for the campus heating load.

Phase 3 will install two (2) of the factory-fabricated, dual-fuel water-tube boilers purchased in Phase 1 in the CUP with the third boiler to be installed in the SUP.

The Boiler Plant Equipment Replacement and Utility Tunnel Connection is currently in the Design Phase. Planning began in Fall of 2018 and Phase 1 and 2 of the project will bid in February 2020. Construction is anticipated to begin in Summer 2020 with completion in Fall 2022.

The Final Budget is based on reconciled estimates of construction costs prepared by the project consultant and construction manager. The University intends to issue construction contracts on receipt of satisfactory bids and the development of Guaranteed Maximum Prices for all Phases as described herein.

The Final Budget is attached for your information.

Attachment

CAPITAL PROJECT BUDGET REPORTING FORM

TYPE BUDGET: FINAL

PROJECT NAME: BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY TUNNEL CONNECTION

	APPROVED PLANNING 3/21/2019	APPROVED REVISED PLANNING 4/24/2019	APPROVED DESIGN 8/14/2019	PROPOSED FINAL 2/26/2020
<u>BUDGETED EXPENDITURES</u>				
	PRC			
CONSTRUCTION	\$ -	\$ -	\$ 600,000	\$ 29,200,000
DESIGN SERVICES	350,000	870,000	1,050,000	2,000,000
TELECOMMUNICATIONS	-	-	-	-
FURNITURE, FIXTURES AND EQUIPMENT	-	-	-	-
CONSTRUCTION ADMINISTRATION	40,000	100,000	100,000	1,200,000
OTHER AE SERVICES (including Project Management)	25,000	125,000	150,000	2,000,000
ART	-	-	-	-
RELOCATION	-	-	-	-
ENVIRONMENTAL	5,000	5,000	160,000	550,000
INSURANCE AND LEGAL	5,000	10,000	10,000	50,000
MISCELLANEOUS	5,000	10,000	30,000	-
OTHER SOFT COSTS	-	-	-	-
SUBTOTAL	\$ 430,000	\$ 1,120,000	\$ 2,100,000	\$ 35,000,000
PROJECT CONTINGENCY	50,000	130,000	200,000	5,000,000
TOTAL BUDGETED EXPENDITURES	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>	<u>\$ 2,300,000</u>	<u>\$ 40,000,000</u>
<u>SOURCE(S) OF FUNDING*</u>				
UCONN 2000 BOND FUNDS	\$ 480,000	\$ 1,250,000	\$ 2,300,000	\$ 40,000,000
TOTAL BUDGETED FUNDING	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>	<u>\$ 2,300,000</u>	<u>\$ 40,000,000</u>

* This budget reflects the University's current intended source(s) of funding for the specified project. The University may adjust this funding plan in order to ensure compliance with applicable federal and state law(s) or to strategically utilize all fund sources, within the approved budget amount, as appropriate.

BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY
TUNNEL CONNECTION
Project Budget (FINAL)
February 26, 2020



Existing Central Utility Plant




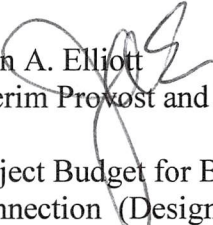
Basis of Design Water-Tube Boiler



August 14, 2019

TO: Members of the Board of Trustees

FROM: Scott A. Jordan 
Executive Vice President for Administration and Chief Financial Officer

John A. Elliott 
Interim Provost and Executive Vice President for Academic Affairs

RE: Project Budget for Boiler Plant Equipment Replacement and Utility Tunnel Connection (Design: \$2,300,000)

RECOMMENDATION:

That the Board of Trustees approve the Design Budget of \$2,300,000, as detailed in the attached project budget, for the Boiler Plant Equipment Replacement and Utility Tunnel Connection, for Planning and Design. The Administration recommends that the Board of Trustees adopt the Resolution below.

RESOLUTION:

“Be it resolved that the Board of Trustees approve the use of \$2,300,000 in UCONN 2000 bond funds for Boiler Plant Equipment Replacement and Utility Tunnel Connection.”

BACKGROUND:

This project will be implemented in 2 phases. Phase I will complete the easterly utility interconnection between the future Supplemental Utility Plant (SUP) and the Central Utility Plant (CUP) that includes extension of the steam, chilled water, and electrical connections from their current locations at the northeast corner of the UTEB building.

Phase II will replace the existing aged boilers in the CUP in phases over a period of years. These boilers are inefficient; require extensive maintenance to stay operational and; replacement parts are difficult to obtain or are no longer manufactured. Additionally, the University has been notified by CT DEEP that the boilers are required to be de-commissioned by June 2023 due to issues relating to compliance with upcoming emissions criteria (NOX). The project intent is to place one of the replacement boilers in the planned SUP and two in the CUP.

In order to meet the narrow installation window for the boilers and to meet the deadline for their decommissioning, the air permitting consultant has indicated that the Connecticut DEEP application process for air (emissions) permitting needs to start immediately. Pursuing that permitting process will require drawings, detailed construction scheduling, and air modeling.

The Boiler Plant Equipment Replacement and Utility Tunnel Connection is currently in the Design Phase. Planning began in Fall of 2018 and phase I of the project will bid in Fall 2019. Construction is anticipated to begin in Summer 2020 and with completion in Fall 2023.

The Design Budget is based on order of magnitude estimates of construction costs prepared by the project consultant.

The anticipated total project budget for Boiler Plant Equipment Replacement and Utility Tunnel Connection is in the range of \$35,000,000-\$40,000,000.

The Design Budget is attached for your information and reflects an increase of \$1,050,000 to the previously approved revised planning budget of \$1,250,000.

Attachment

CAPITAL PROJECT BUDGET REPORTING FORM

TYPE BUDGET: DESIGN

PROJECT NAME: BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY TUNNEL CONNECTION

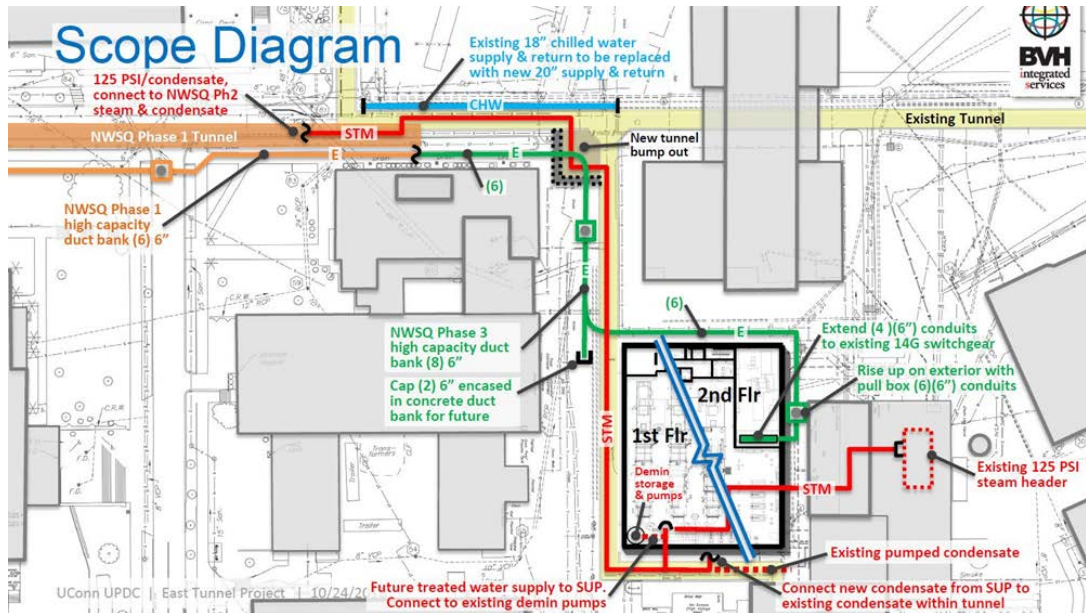
	APPROVED PLANNING <u>3/21/2019</u>	APPROVED REVISED PLANNING <u>4/24/2019</u>	REVISED DESIGN <u>8/14/2019</u>
<u>BUDGETED EXPENDITURES</u>			
	PRC		
CONSTRUCTION	\$ -	\$ -	\$ 600,000
DESIGN SERVICES	350,000	870,000	1,050,000
TELECOMMUNICATIONS	-	-	-
FURNITURE, FIXTURES AND EQUIPMENT	-	-	-
CONSTRUCTION ADMINISTRATION	40,000	100,000	100,000
OTHER AE SERVICES (including Project Management)	25,000	125,000	150,000
ART	-	-	-
RELOCATION	-	-	-
ENVIRONMENTAL	5,000	5,000	160,000
INSURANCE AND LEGAL	5,000	10,000	10,000
MISCELLANEOUS	5,000	10,000	30,000
OTHER SOFT COSTS	-	-	-
SUBTOTAL	\$ 430,000	\$ 1,120,000	\$ 2,100,000
PROJECT CONTINGENCY	50,000	130,000	200,000
TOTAL BUDGETED EXPENDITURES	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>	<u>\$ 2,300,000</u>
<u>SOURCE(S) OF FUNDING</u>			
UCONN 2000 BOND FUNDS	\$ 480,000	\$ 1,250,000	\$ 2,300,000
TOTAL BUDGETED FUNDING	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>	<u>\$ 2,300,000</u>

* This budget reflects the University's current intended source(s) of funding for the specified project. The University may adjust this funding plan in order to ensure compliance with applicable federal and state law(s) or to strategically utilize all fund sources, within the approved budget amount, as appropriate.

BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY TUNNEL CONNECTION

Project Budget (DESIGN)

August 14, 2019




Existing CUP Steam Boiler 1 (1960), Boiler 2 (1962) and Boiler 3 (1966)

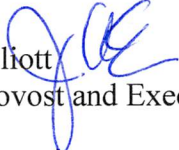


UNIVERSITY OF CONNECTICUT

April 24, 2019

TO: Members of the Board of Trustees

FROM: Scott A. Jordan 
Executive Vice President for Administration and Chief Financial Officer

John A. Elliott 
Interim Provost and Executive Vice President for Academic Affairs

RE: Project Budget for Boiler Plant Equipment Replacement and Utility Tunnel Connection (Revised Planning: \$1,250,000)

RECOMMENDATION:

That the Board of Trustees approve the Revised Planning Budget of \$1,250,000, as detailed in the attached project budget, for the Boiler Plant Equipment Replacement and Utility Tunnel Connection, for Planning and Design. The Administration recommends that the Board of Trustees adopt the Resolution below.

RESOLUTION:

“Be it resolved that the Board of Trustees approve the use of \$1,250,000 in UCONN 2000 GO bonds for Boiler Plant Equipment Replacement and Utility Tunnel Connection.”

BACKGROUND:

This project is in two parts. Part one will replace the existing aged boilers in the Central Utility Plant (CUP) in phases over a period of years. These boilers are inefficient; require extensive maintenance to stay operational; and, replacement parts are difficult to obtain or are no longer manufactured. Additionally, the University has been notified by CT DEEP that the boilers are required to be de-commissioned by June 2023 due to issues relating to compliance with upcoming emissions criteria (NOX). The project intent is to place one of the replacement boilers in the planned Supplemental Utility Plant (SUP) and two in the Central Utility Plant (CUP).

Part two of the project will complete the easterly utility interconnection between the future SUP and CUP that includes extension of the steam, chilled water, and electrical connections from their current locations at the northeast corner of the United Technologies Engineering Building (UTEB).

The Boiler Plant Equipment Replacement and Utility Tunnel Connection is currently in the Planning Phase. Planning began in Fall 2018 and the project will bid in Fall 2019. Construction is to be coordinated with the Science 1 project and Gant Phase 2 Renovations and is anticipated to begin in Summer 2020 and to be complete in Fall 2023.

The Revised Planning Budget is based on order of magnitude estimates of construction costs prepared by the project consultant.

The anticipated total project budget for Boiler Plant Equipment Replacement and Utility Tunnel Connection is in the range of \$35,000,000.

The Revised Planning Budget is attached for your information.

Attachment

CAPITAL PROJECT BUDGET REPORTING FORM

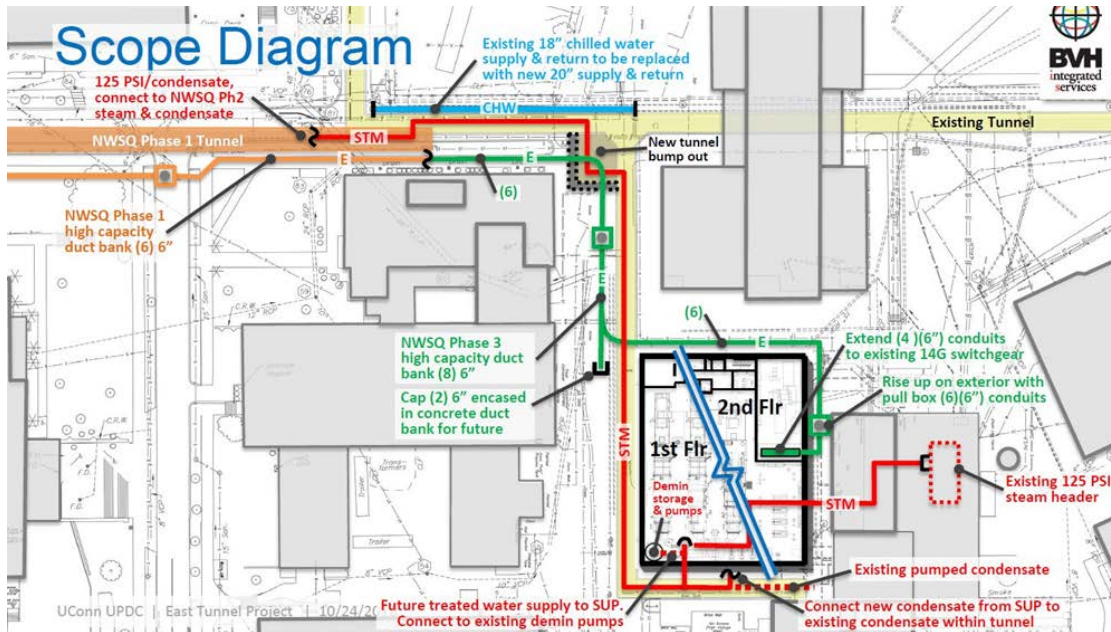
TYPE BUDGET: REVISED PLANNING

PROJECT NAME: BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY TUNNEL CONNECTION

<u>BUDGETED EXPENDITURES</u>	<u>APPROVED PLANNING 4/5/2019</u>	<u>PROPOSED REVISED PLANNING 4/24/2019</u>
	PRC	
CONSTRUCTION	\$ -	\$ -
DESIGN SERVICES	350,000	870,000
TELECOMMUNICATIONS	-	-
FURNITURE, FIXTURES AND EQUIPMENT	-	-
CONSTRUCTION ADMINISTRATION	40,000	100,000
OTHER AE SERVICES (including Project Management)	25,000	125,000
ART	-	-
RELOCATION	-	-
ENVIRONMENTAL	5,000	5,000
INSURANCE AND LEGAL	5,000	10,000
MISCELLANEOUS	5,000	10,000
OTHER SOFT COSTS	-	-
SUBTOTAL	\$ 430,000	\$ 1,120,000
PROJECT CONTINGENCY	50,000	130,000
TOTAL BUDGETED EXPENDITURES	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>
<u>SOURCE(S) OF FUNDING*</u>		
UCONN 2000 BOND FUNDS	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>
TOTAL BUDGETED FUNDING	<u>\$ 480,000</u>	<u>\$ 1,250,000</u>

* This budget reflects the University's current intended source(s) of funding for the specified project. The University may adjust this funding plan in order to ensure compliance with applicable federal and state law(s) or to strategically utilize all fund sources, within the approved budget amount, as appropriate.

BOILER PLANT EQUIPMENT REPLACEMENT AND UTILITY TUNNEL CONNECTION Project Budget (REVISED PLANNING) April 24, 2019



Tunnel Connection to the existing CUP (steam and power)



Existing CUP Steam Boiler 1 (1960), Boiler 2 (1962) and Boiler 3 (1966)