

Contact: John Nash

**REGISTER OF UNIVERSITY OF NORTHERN IOWA
CAPITAL IMPROVEMENT BUSINESS TRANSACTIONS**

Actions Requested: Consider recommending to the Board approval of the permission to proceed with project planning for the **Steam Distribution System Replacement Phase 2** project, including the design professional selection process.

Executive Summary:

The **Steam Distribution System Replacement Phase 2** project would install 4,100 feet of new utility tunnels including two large steam pipes. This would replace 4,700 feet existing direct-buried piping and 300 feet of existing tunnels which have outlived their useful lives (see Attachment A for locations). Select structural repairs of the existing tunnels would also be included. The University would fund the estimated project cost of \$30,000,000 with Utility Funds, Utility Bonds, and Grants.

Details of the Project:

Steam Distribution System Replacement Phase 2

Project Summary

	<u>Amount</u>	<u>Date</u>	<u>Board Action</u>
Permission to Proceed with Project Planning		Feb. 2017	Requested

A reliable steam supply to campus buildings is imperative. The steam distribution system provides heating, cooling, and domestic hot water for almost all of the campus buildings. Components of the existing steam distribution system are up to 100 years old.

In recent years, there have been several steam pipe failures, especially in the direct-buried piping. In 2016, the University hired a consultant to review the condition of the steam distribution system and develop a master plan for repairs. Based on that master plan, the University needs to replace much of the existing direct-buried piping systems with new piping in new walkable tunnels through this project.

This project supports UNI's 2017-2022 Strategic Plan, approved by the Board in October 2016, under "Supporting Goal 2: Campus Vitality" which states: "Support academic success by addressing building and infrastructure needs through renewal, maintenance, and upgrades focused on sustainability and efficiency."

UNIVERSITY OF NORTHERN IOWA
Steam Distribution System Replacement Phase 2 Map

UNI LONG RANGE
STEAM TUNNEL
DISTRIBUTION PLAN



Steam Distribution

- Existing Steam Tunnels
- Proposed Steam Tunnels

