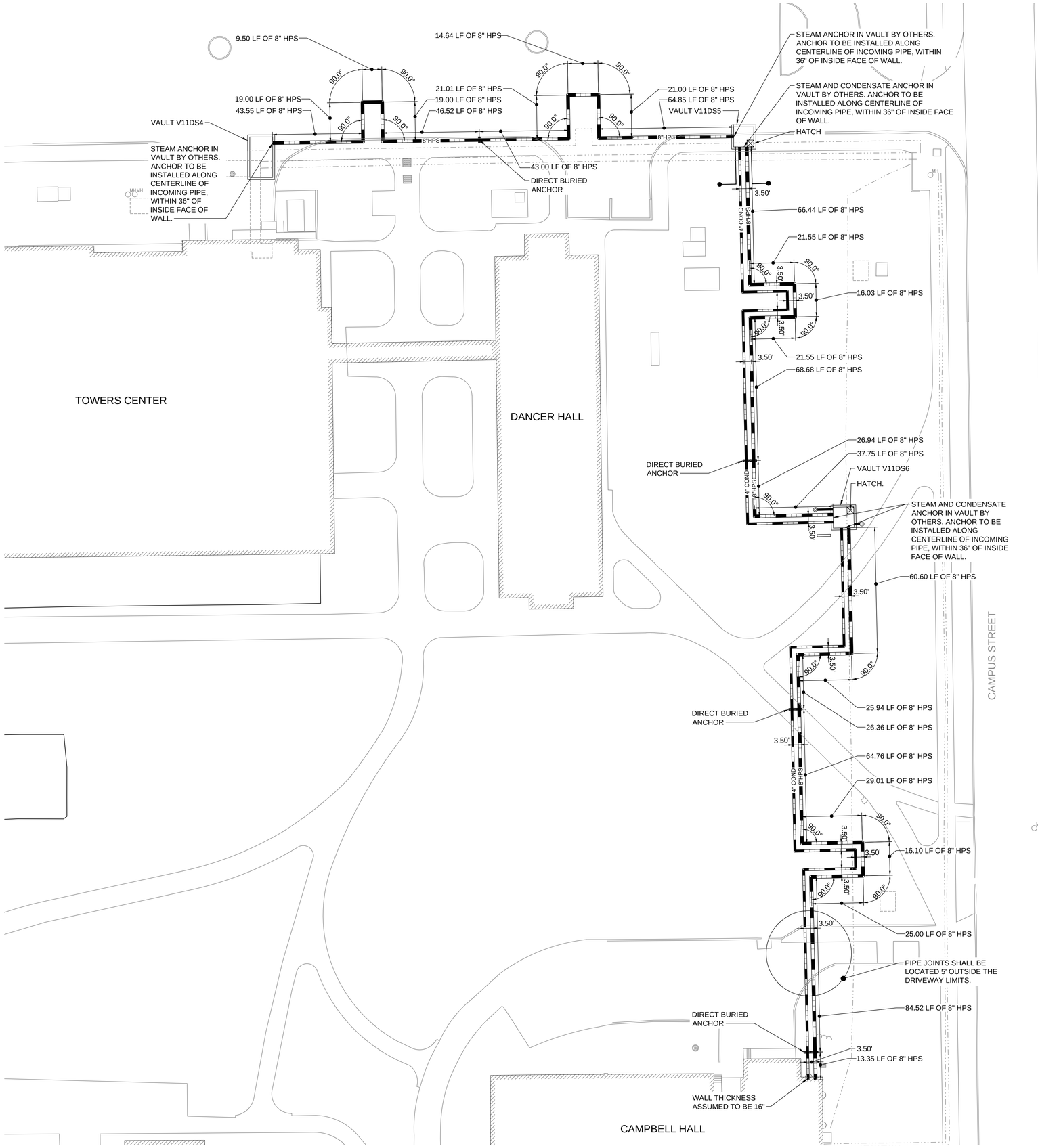

PRE-ENGINEERED PIPING LAYOUT

NOTES:

1. **ALL LINEAR MEASUREMENTS ARE MEASURED USING 3-DIMENSIONAL LENGTHS.**
2. **BOTTOM OF 4" CONDENSATE CASING PIPE TO MATCH BOTTOM OF 8" HPS CASING PIPE AND SHALL BE INSTALLED AT THE SAME SLOPE AS THE HPS.**
3. **ANGLES OF THE CONDENSATE PIPE SHALL MATCH THE ANGLES OF THE STEAM SHOWN.**
4. **ALL DIMENSIONS ARE SHOWN FROM CENTERLINE OF PIPE.**
5. **PIPE LENGTHS ARE MEASURED TO INSIDE FACE OF VAULT WALL. CAMPBELL HALL WALL IS ESTIMATED TO BE 12" THICK, PLUS 4".**

ABBREVIATIONS

HPS - HIGH PRESSURE STEAM; DESIGN CONDITIONS 150 PSIG AT 550° F.

COND - CONDENSATE; DESIGN CONDITIONS 150 PSIG AT 400° F.

LICENSED PROFESSIONAL ENGINEER
PETER J VAN SICKLE
21990
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE: [signature]

NAME: PETER VAN SICKLE

DATE: 01/16/2019 LICENSE NUMBER: 21990

MY LICENSE RENEWAL DATE IS: DECEMBER 31, 2019

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STEAM DISTRIBUTION SYSTEM REPLACEMENT PHASE 2A - CAMPBELL HALL TO TOWERS CENTER

UNIVERSITY OF NORTHERN IOWA
CEDAR FALLS, IA

DRAWN: LCH
APPROVED: PJV
ISSUED FOR: BIDDING
DATE: 01/16/2019
PROJECT NO: 1183540
FIELD BOOK: ---
CLIENT NO: ST-67

PRE-ENGINEERED PIPING LAYOUT

C404