NOTE: STREET AND UTILITY REPLACEMENT CONDUCTED BY OTHERS. COORDINATE REMOVAL AND INSTALLATION OF STEAM LINE WITH OTHER CONTRACTORS.

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

CLIENT: DULUTH STEAM

PROJECT NAME: CITY BID NO.: 14-16DS
10TH AVENUE EAST CONDUIT REPLACEMENT

DATE: 06/17/14 REG. NO.: 18929

ONE LAKE PLACE DRIVE
DULUTH, MINNESOTA 55802

DRAWING TITLE: DEMOLITION PLAN AT 4TH STREET

FILE: J1403537000 DRAWINGM1.01.dwg
DRAWN BY: RTS
CHECKED BY: CTW
PROJ. NO.: 1402237
DRAWING NO.: M1.01
REMOVE EXISTING 2" STEAM LINE IN HATCHED AREA

EXISTING STEAM VAULT TO REMAIN

NOTE: STREET AND UTILITY REPLACEMENT CONDUCTED BY OTHERS.
COORDINATE REMOVAL AND INSTALLATION OF STEAM LINE WITH OTHER CONTRACTORS.

DEMOlITION PLAN AT 3RD STREET

1/16"=1'-0"
ANCHOR, SEE DETAIL 1/M3.01

N. 10TH AVE. E.

2" STEAM LINE,
4-12" O.D.

NOTE: STREET AND UTILITY REPLACEMENT CONDUCTED BY OTHERS. COORDINATE REMOVAL AND INSTALLATION OF STEAM LINE WITH OTHER CONTRACTORS.

E. 4TH ST.

PLAN VIEW AT 4TH STREET

1/16" = 1'-0"

TIE-INTO EXISTING SERVICE WITH NEW 2" FORGED STEEL GATE VALVE AND 2" STEAM RATED BALL VALVE. SEE TERMINATION DETAIL 2/M3.02.

LINK SEAL
STEEL PIPE ANCHOR SPECIFICATIONS

ANCHOR PLATES ARE 1/2" STEEL CIRCLED ON CONDUT WITH DIMENSIONS 1 1/2" LARGER HORIZONTALLY AND 1 1/2" LARGER VERTICALLY THAN INSIDE PIPE ANCHOR DIAMETERS. THE CONCRETE ANCHOR BLOCK SHOULD BE CAST OF NON-CORRODING EARTH OR COMPACTED BACK FILL. CONCRETE IS REQUIRED IN ALL DIRECTIONS WITH A MINIMUM OF 15" IN EARTH OR COMPACTED BACK FILL. CONCRETE SHOULD EXTEND ON THE ANCHOR SIDE OF THE ANCHOR BLOCK TO BE BURIED 1/2" FOR SEAM CONDITIONS AND SIDE TO SIDE.

FIELD RUN 3" STEAM LINE TO EXISTING MAIN

6"-3/4" GALVANIZED CONDUIT WITH 1" URETHANE INSULATION AND NON-METALS JACKET

STEEL ANCHOR PLATE

1/2" ANCHOR PLATE EXTENDS MINIMUM 6" OUTSIDE PIPE, TEE, AND CONDUIT

CONCRETE ANCHOR

EXISTING BUILDING

2 ANCHOR PIPING DETAIL 2

NOT TO SCALE

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

SIGNATURE:

TYPED OR PRINTED NAME: DAVID T. WILLIAMS

DATE: 06/17/14 REG. NO.: 18920

PROJECT NAME: CITY BID NO.: 14-16DS
CLIENT: DULUTH STEAM
10TH AVENUE EAST CONDUIT REPLACEMENT
ONE LAKE PLACE DRIVE DULUTH, MINNESOTA 55802

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