

1 DEMOLITION PLAN AT 4TH STREET
1/16" = 1'-0"



PERFORMANCE
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21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8448

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: *David T. Williams*

TYPED OR PRINTED NAME: DAVID T WILLIAMS

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

CLIENT:
DULUTH
STEAM

ONE LAKE PLACE DRIVE
DULUTH, MINNESOTA 55802

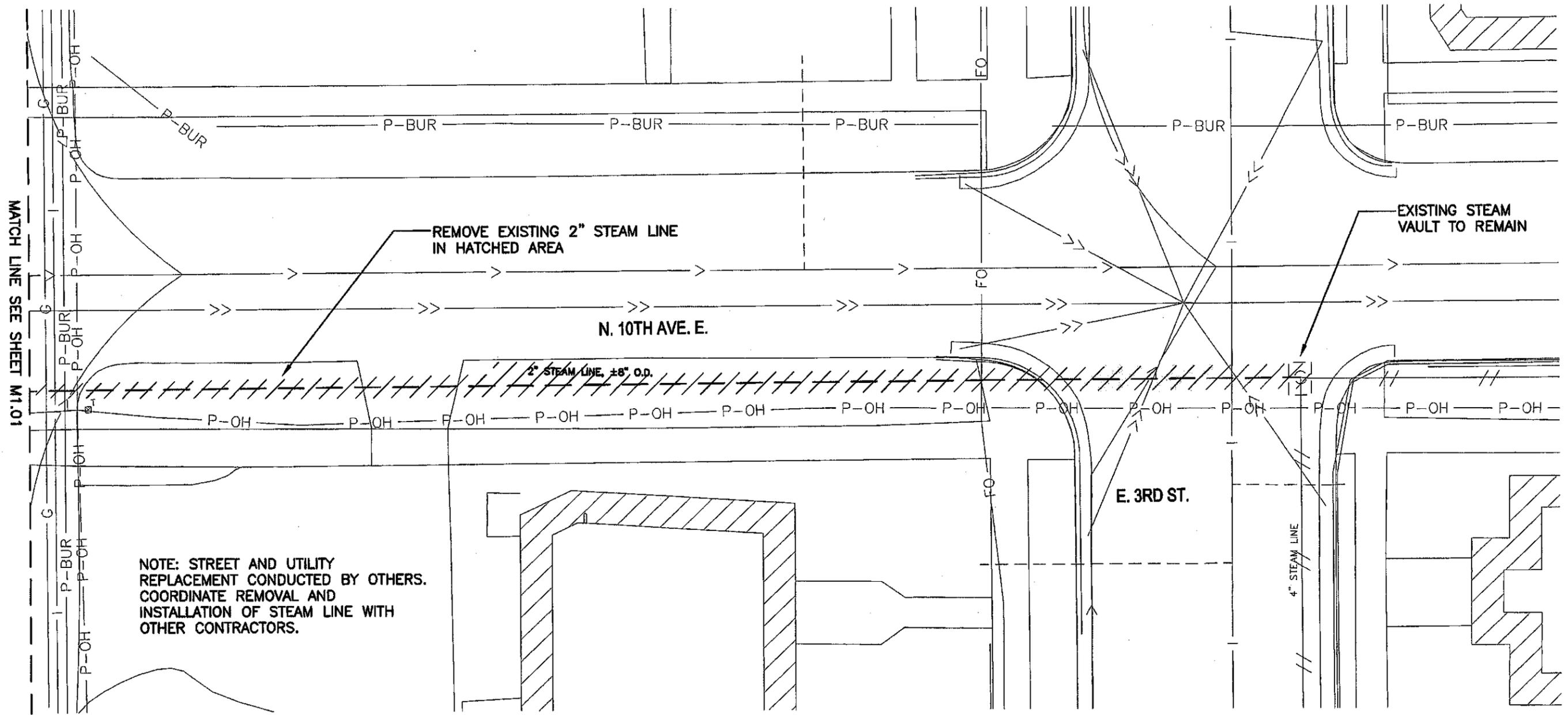
PROJECT NAME:
CITY BID NO.: 14-16DS
10TH AVENUE EAST
CONDUIT
REPLACEMENT

DRAWING TITLE:
DEMOLITION PLAN
AT 4TH STREET

FILE: ..140237600 Drawings\MM1.01.dwg
DRAWN BY: RTS
CHECKED BY: DTW
PROJ. NO: 140237
DRAWING NO:

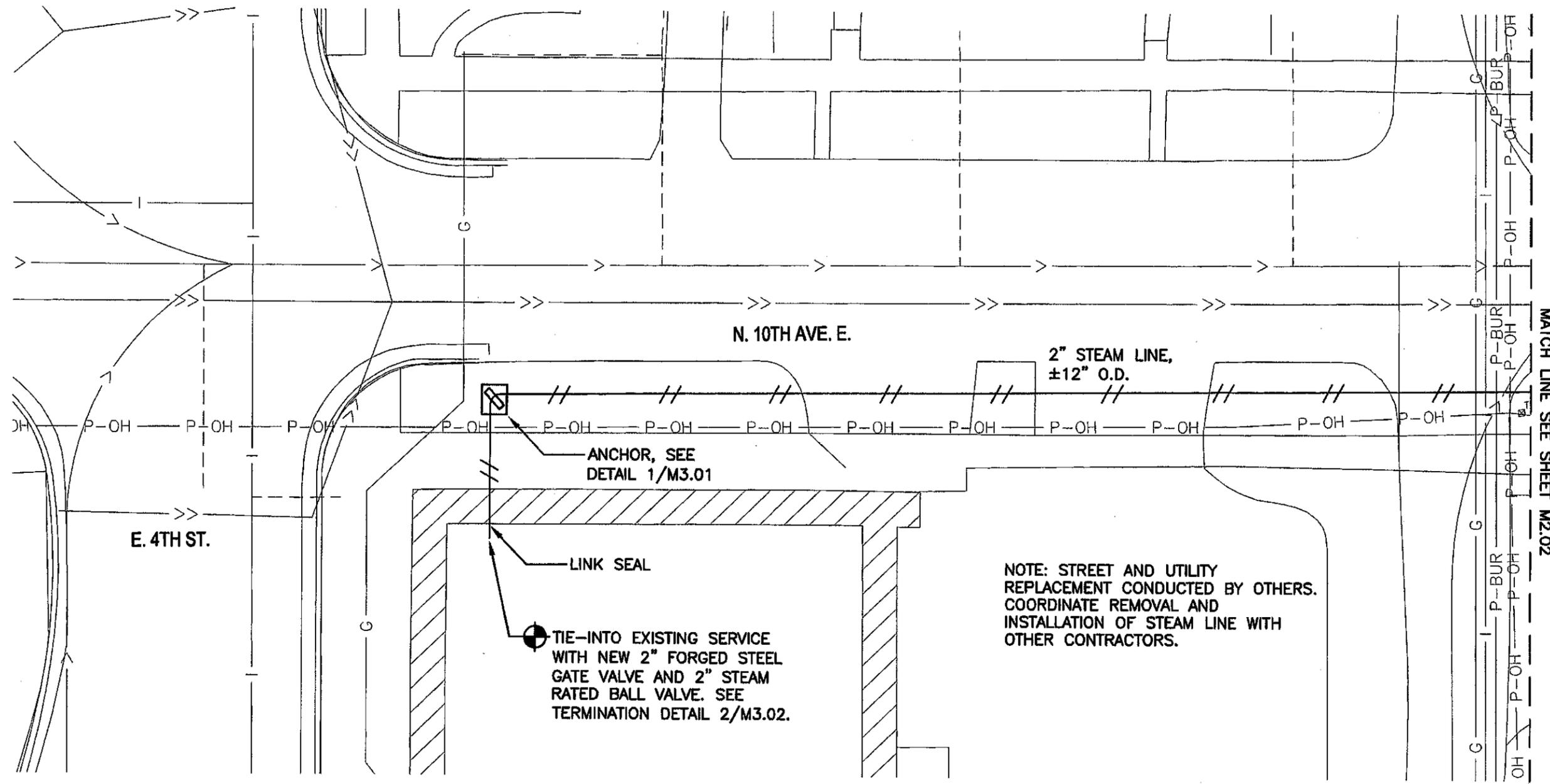
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1 PLAN VIEW AT 4TH STREET
1/16" = 1'-0"



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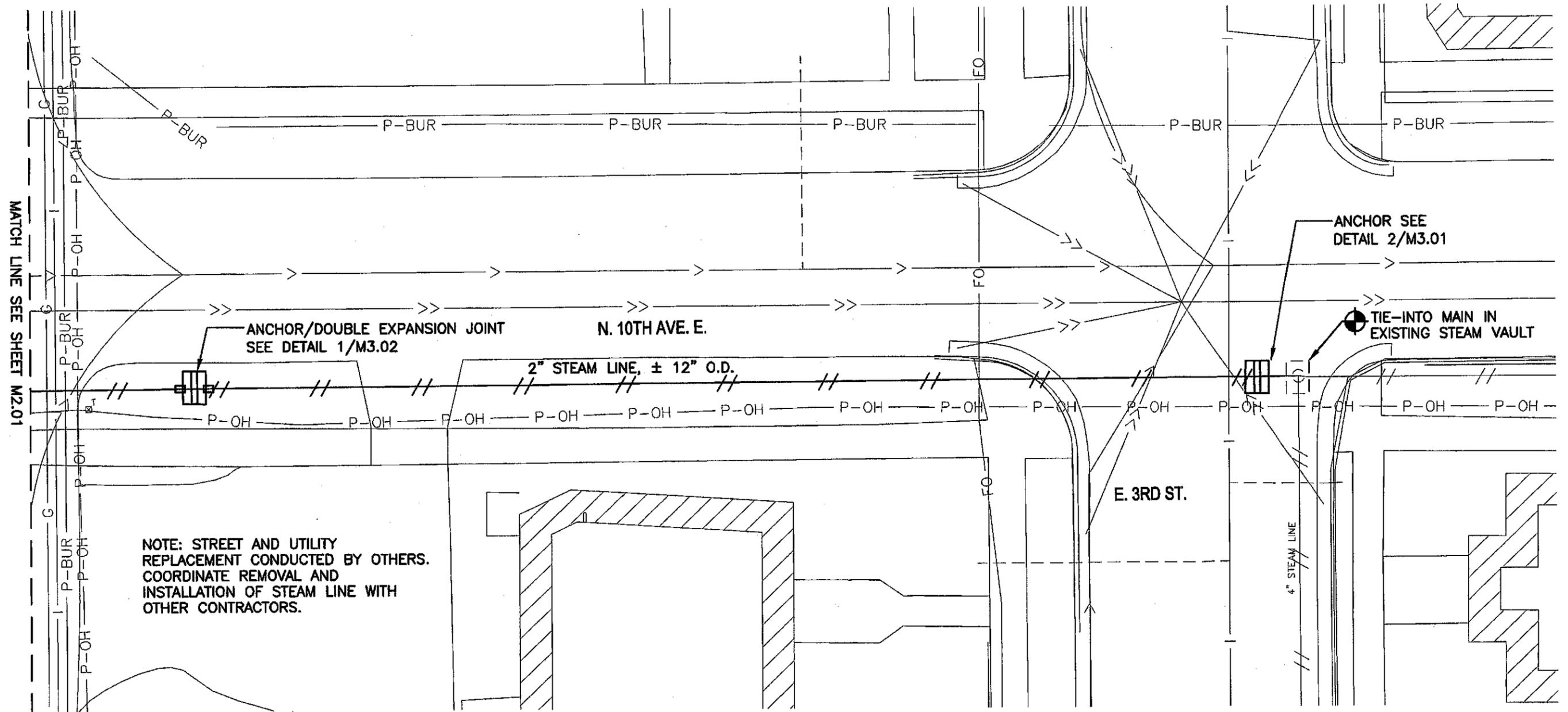
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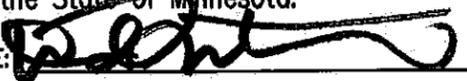
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DRAWING NO:

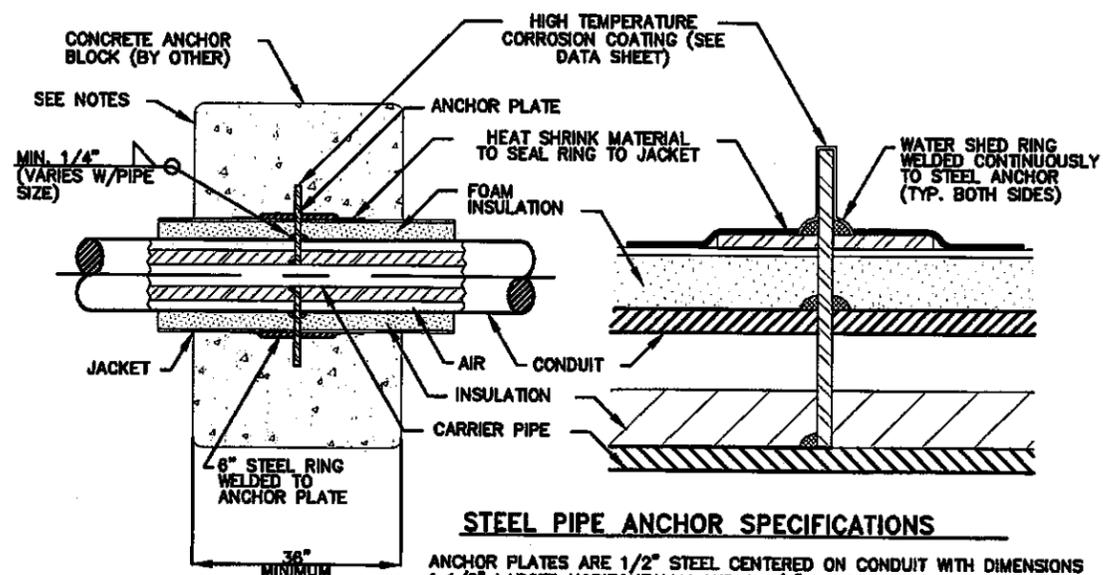
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M2.01



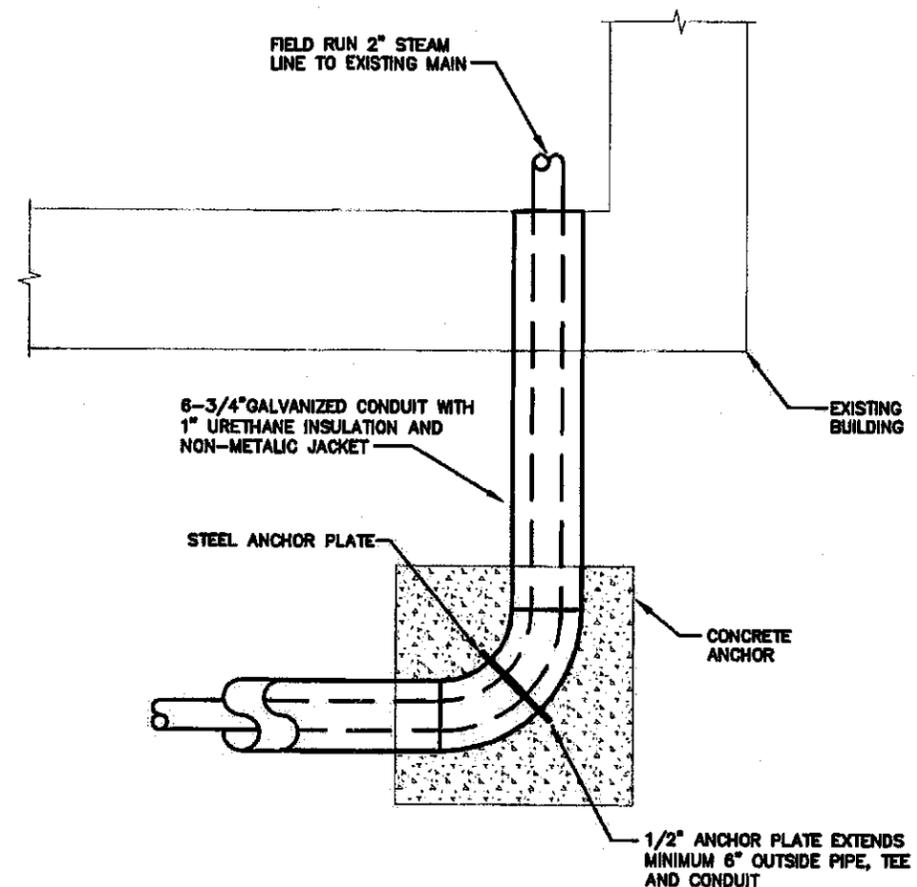
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STEEL PIPE ANCHOR SPECIFICATIONS

ANCHOR PLATES ARE 1/2" STEEL CENTERED ON CONDUIT WITH DIMENSIONS 1 1/2" LARGER HORIZONTALLY AND 1 1/2" LARGER VERTICALLY THAN NOMINAL HDPE JACKET DIAMETER. THE CONCRETE ANCHOR BLOCK SHOULD EXTEND A MINIMUM OF 12" INTO THE TRENCH WALL, UNDISTURBED EARTH OR COMPACTED BACK FILL (MINIMUM 95 PROCTOR) IN ALL DIRECTIONS, WITH A MINIMUM OF 18" IN LENGTH ON BOTH SIDES OF THE ANCHOR PLATE. THE ANCHOR BLOCK SIZE IS BASED ON THE SOIL CONDITIONS AND THE FORCES EXERTED ON THE ANCHOR. SIZING OF THE ANCHOR BLOCK IS BY OTHERS.



2 ANCHOR PIPING DETAIL 2
NOT TO SCALE

1 ANCHOR PIPING DETAIL 1
NOT TO SCALE



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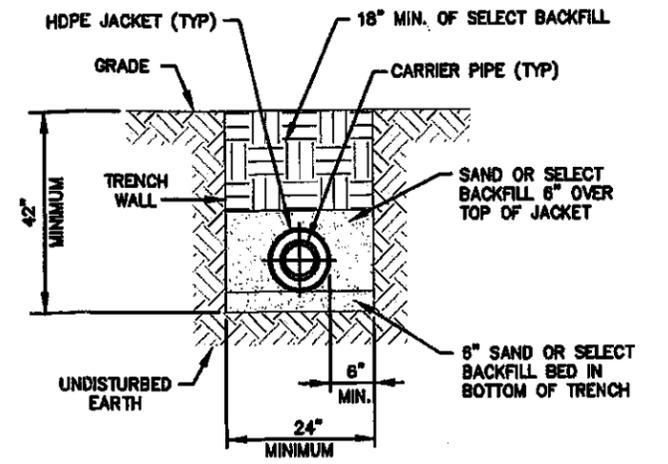
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REPLACEMENT**

DRAWING TITLE:
**MECHANICAL
DETAILS AND
SECTIONS**

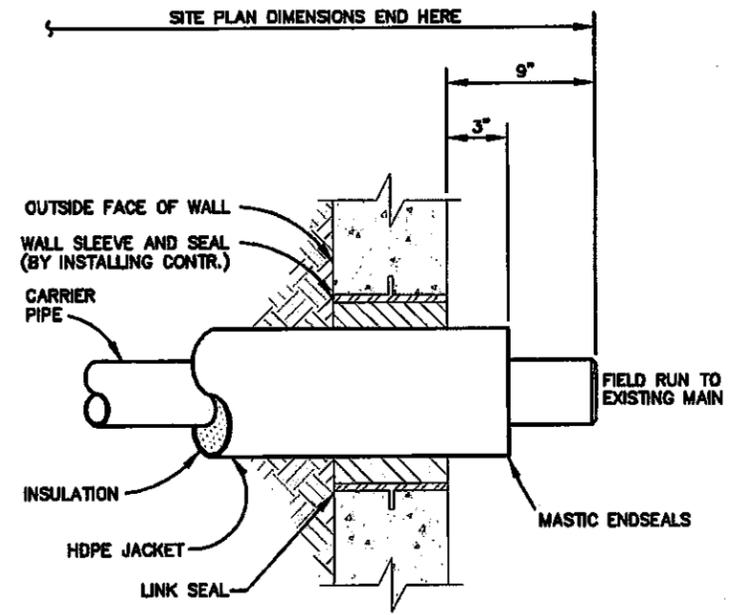
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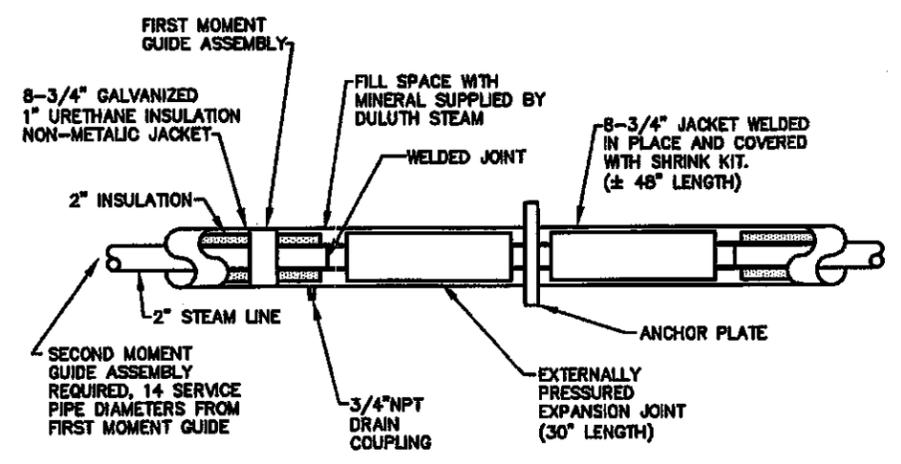
M3.01



2 PIPE TRENCH SECTION
NOT TO SCALE



3 STEAM VAULT TERMINATION DETAIL
NOT TO SCALE



1 ENCASED EXPANSION JOINT DETAIL
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