

- GAS TUNGSTEN ARC WELD

(Typical of 4)

FRONT VIEW

-WT8x13, 12" LONG CUT TO SUIT ELEVATION

- REFER TO

DETAIL G

THIS SHEET

(GTAW) 2" SQUARE COPPER TABS TO COPPER PIPE

1/8" THICK LEAD SHEET BETWEEN

FRICTION CLAMP AND COPPER PIPE,

½" WIDER THEN FRICTION CLAMP

(1/4" ON EA. SIDE)-

FRICTION

CLAMP(Typ.)

DHW ANCHOR NOTES:

1. PRIOR TO THE COMMENCEMENT OF WELD PROCESS, OBTAIN U OF M REPRESENTATIVE APPROVAL FOR ORIENTATION AND LOCATION OF COMPONENT.

DIRECTION OF POSITION OF WT8x13 PIPE MOVEMENT WHEN PIPE IS COLD

LPS, LPC, HPS & HPC 12" OR SMALLER

└ HSS 4x2x¹⁄₄

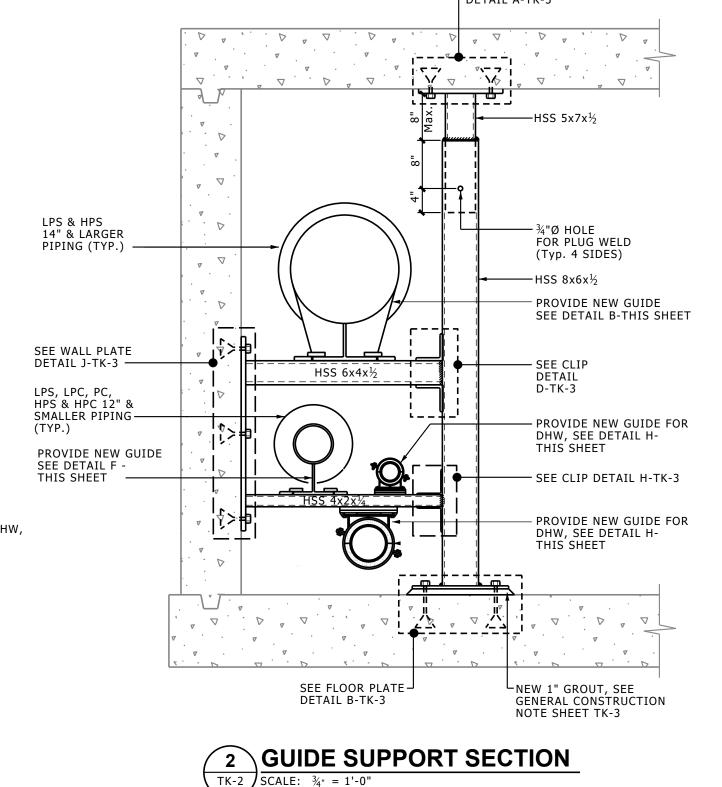
LONGITUDINAL VIEW

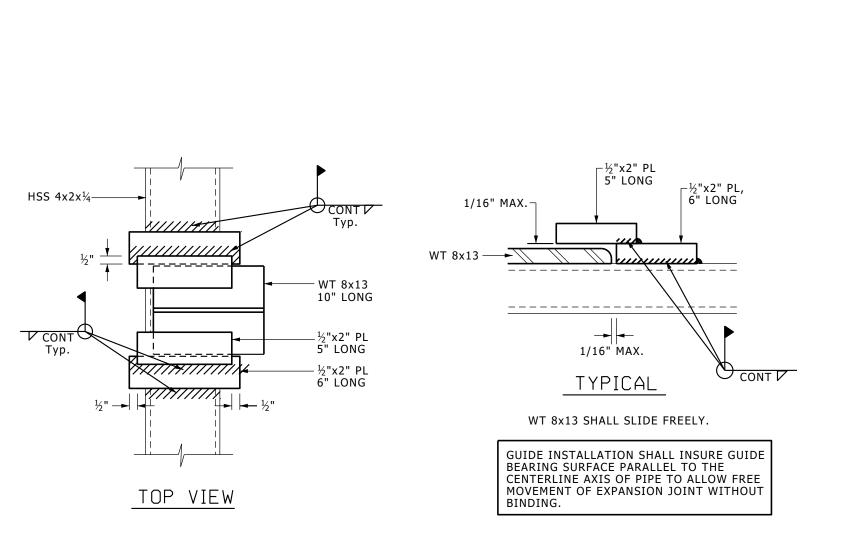
NO SCALE

GUIDE DETAIL

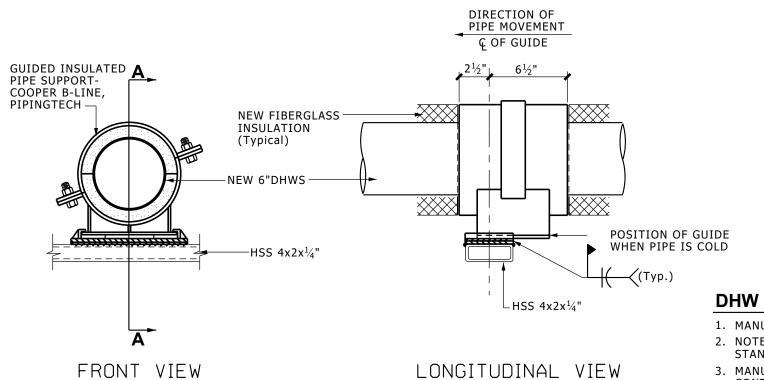
2. BOLTS SHALL BE POSITIONED TO BE ACCESSIBLE FROM AISLEWAY.

DHW ANCHOR DETAIL





DETAIL FOR GUIDE



DHW GUIDE DETAIL

DHW GUIDE NOTES

Note to Designers:

APPROPRIATE APPLICATION AND ADEQUACY.

ARE SHOWN IN THIS SHEET.

Tool Kit Overview

(1) PREFERRED STEEL SUPPORT DETAILS FOR EXISTING AND NEW TUNNELS

THIS TOOL KIT IS INTENDED TO INDICATE DETAILS THAT

WERE SUCCESSFUL IN PAST PROJECTS AND TO INDICATE

EACH SUPPORT SHOULD HAVE A CONSTRUCTION REFERENCE

NOTE REFERRING TO A SECTION DETAIL. SUPPORTS THAT

GIVE EXISTING CONDITIONS TO SUPPORT ACCURATE BIDDING.

CONSULT AEC FOR AVAILABLE DRAWING AND/OR LASER SCAN FILES.

ARE IDENTICAL MAY USE THE SAME NOTE AND SECTION DETAIL

(AS IN CONSTRUCTION REFERENCE NOTES 5 AND 6). NOT ALL

LEVEL OF DETAIL REQUIRED IN THE BID DOCUMENTS.

THESE DETAILS ARE NOT 'CUT AND PASTE' FOR ALL

SUPPORTS HAVE BEEN DETAILED FOR THIS EXAMPLE

(2) DETAILS NOT INTENDED AS FINALIZED DESIGN. INTENT IS TO SHOW PREFERENCES IN CONSTRUCTION AND REQUIRED DEPTH OF DETAILS TO BE PROVIDED IN BID DOCUMENTS. DESIGN ENGINEER SHALL DETERMINE

- 1. MANUFACTURER'S STANDARD MODEL B3000 SHALL BE MODIFIED TO SUIT EACH PROJECT.
- 2. NOTE B3000 BASE DESIGN SHALL BE MODIFIED FOR $\frac{1}{16}$ " CLEARANCE IN LIEU OF STANDARD %". 3. MANUFACTURER'S STANDARD "B" DIMENSION SHOWN IN CATALOG IS NOT APPLICABLE.
- CONTRACTOR MAY FIELD MEASURE AND ORDER GUIDES WITH CUSTOM "B" DIMENSION AT EACH LOCATION. THE DRAWINGS ARE PREPARED WITH BOP TO BASE OF GUIDE EQUAL TO ONE INCH PLUS INSULATION THICKNESS. BUT ACTUAL BOP DIMENSION TO FLOOR VARIES. USE STEEL PLATE SHIMS AS DETAILED. 4. PRIOR TO FINAL WELDING OBTAIN U OF M REPRESENTATIVE APPROVAL AT ALL GUIDE



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TUNNEL TOOL-KIT

REFERENCE DETAILS, **SUPPORTS & SECTIONS**

For

Design Professionals Use if Deemed Applicable and Adequate for Project

Not For Construction

UM TUNNEL TOOL KIT REFERENC DETAILS, SUPPORTS & SECTIONS FOR DESIGN PROFESSIONAL USE IF DEEMED APPLICABLE & ADEQUATE APPROVED BY AEC - Architecture & Engineering REPRESENTING PS/BB DRAWN BY CAD/BB
DESIGNED BY

New Master Draft Master for Review
 05/08/23 **Tunnels**

• 10/20/2

Posted to Web

Tool Kit

University Of Michigan Ann Arbor , MI

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Mechanical **Anchors & Guides** Typical Supports, **Sections & Details**

SHEET NO. OF 13 SHEET FILE NO.