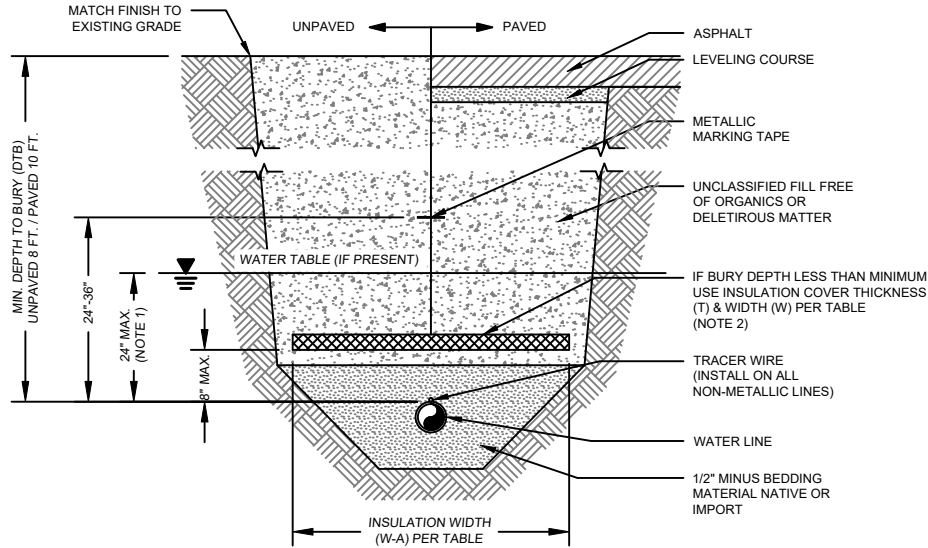


**ALTERNATIVE A:
STANDARD TRENCHING DETAIL**



ALTERNATIVE A - INSULATION DIMENSIONS

	NON-PAVED AREAS				PAVED AREAS			
DTB (ft)	5'	6'	7'	8'	8'	9'	10'	
T (in)	4"	2"	2"	NR	2"	2"	NR	
W-A (ft)	5'	3'	2'	NR	4'	2'	NR	

NR: INSULATION NOT REQUIRED

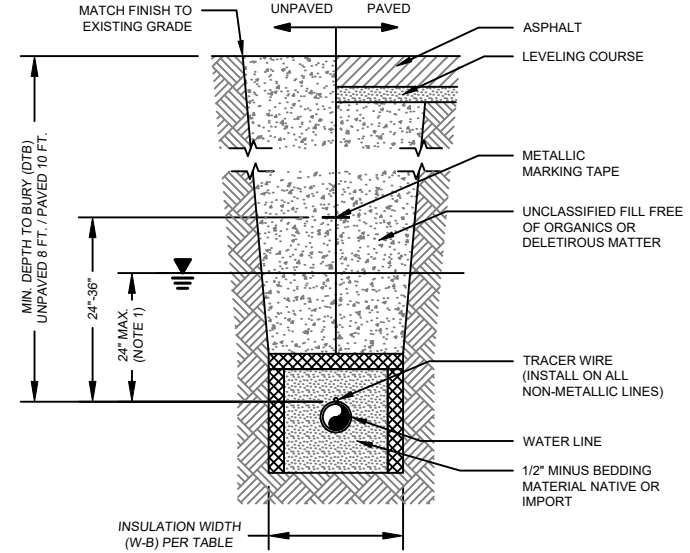
MINIMUM BURY DEPTH REQUIREMENTS

- UNDER PAVED AREAS:
10 FEET NO INSULATION
or 8 FEET & INSULATION PER
ALTERNATIVE A
or 24" BELOW WATER TABLE &
INSULATION PER ALTERNATIVE B
- UNDER UNPAVED AREAS:
8 FEET NO INSULATION
or 5 FEET & INSULATION PER
ALTERNATIVE A
or 24" BELOW WATER TABLE &
INSULATION PER ALTERNATIVE B

NOTES:

- WATER LINES SHALL NOT BE BURIED MORE THAN 24" BELOW THE WATER TABLE UNLESS BY EXCEPTION OF THE UTILITY IN AREAS KNOWN TO HAVE VARIABLE GROUNDWATER LEVEL.
- INSULATION SHALL BE RIGID BOARD EXPANDED POLYSTYRENE (EPS) RATED FOR 60 PSI AND A MINIMUM R VALUE OF R-18 OR GREATER PER 4" OF FOAM. USE OF XPS (PINK OR BLUE BOARD) IS NOT PERMITTED. INSULATION SHALL NOT BE BURIED GREATER THAN 8" ABOVE THE PIPE.
- UNPAVED DRIVEN WAYS SUCH AS GRAVEL ROADS MUST FOLLOW THE PAVED AREA STANDARD UNLESS BY EXCEPTION OF THE UTILITY.
- BACKFILL IN MAX. 18" LIFTS. COMPACT TO 95% MDD.
- SHALLOWER BURY DEPTHS MAY BE APPROVED AT THE UTILITY'S DISCRETION ON THE BASIS OF AN ENGINEER'S ESTIMATION OF LOCAL FROST PENETRATION WHICH CONSIDERS LOCAL CONDITIONS INCLUDING GEOTECHNICAL BORING LOGS, SURFACE COVERAGE AND OTHER INFLUENCING FACTORS.
- WITHIN THE MUNICIPALITY OF ANCHORAGE AREA WATER LINES WITH BURIED INSULATION SHALL BE INSTALLED PER ALL MASS REQUIREMENTS AND FOLLOWING MASS DET. 20-08 & 20-09. 10 FT. DEPTH TO BURY SHALL BE FOLLOWED AT ALL LOCATIONS UNLESS BY EXCEPTION OF THE UTILITY.

**ALTERNATIVE B:
BOX INSULATION TRENCHING DETAIL**
(FOR USE WHEN TRENCH WIDTH IS NARROWER THAN MINIMUM REQUIRED)



ALTERNATIVE B - INSULATION DIMENSIONS

	NON-PAVED AREAS				PAVED AREAS			
DTB (ft)	5'	6'	7'	8'	8'	9'	10'	
T (in)	4"	2"	2"	NR	2"	2"	NR	
W-B (ft)	2'	2'	2'	NR	2'	2'	NR	

NR: INSULATION NOT REQUIRED

REVISIONS

NO.	DATE	BY	DESCRIPTION
#1	10/20/25	OM	INITIAL VERSION

**UTILITY TRENCHING &
INSULATION STANDARD**



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DESIGN: OM
DRAWN: OM
CHECKED: CL
DATE: 10/20/25

SHT.
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