

Managed by: Northern Utility Services, LLC
P.O. Box 233368 Anchorage, Alaska 99523
Office (907) 222-4084 Accounting@nusalaska.com

☐ New Service Line/Connection
☐ Repair Service Line/Connection
☐ Remove service Line/Connection

OWNER INFORMATION

Owner Billing Address			
Street Address or P.O. Box	City	State	Zip Code

PRINTED NAME OF APPLICANT/ TITLE



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SERVICE CONNECT TRENCH INSPECTION

EWO #: _____
Physical Address: _____

Service Line Trenching

- ___ Approximate Depth to Bury: _____
___ Trench Insulation (if required): ☐ Sheet ☐ Box encasement ☐ Not Required
___ 1/2" minus bedding material in contact with pipe

Service Extension (From main to curb stop)

- ___ Copper - Type-K Soft 1" or larger (3/4" not allowed) Size: _____
___ HDPE - SDR11 1" or larger (3/4" not allowed) Size: _____

Curb Stop

- Size: _____ Type: _____ ☐ Threaded ☐ Flare
- Function tested: ☐ Yes ☐ No

Service Line (From curb stop to house)

- ___ Copper - Type-K Soft 1" or larger (3/4" not allowed) Size: _____
___ HDPE - SDR11 1" or larger (3/4" not allowed) Size: _____
___ No king nipples or hose clamps
___ Trace wire installed from house along the service line and up the key box to the surface
___ Compression terminations inspected for stainless insert (if applicable)

Key Box

- ___ New key box installed: ☐ Yes ☐ No
___ New stainless-steel rod and pin
___ Key box covered w/ 3 layers of poly wrap
___ Key box lock installed

Anode, Thaw Wire, Clamp

- ___ Anode installed
___ Grounding Clamp (brass) - used to connect the anode to the main-line side of curb stop
___ Thaw Wire - carefully protected and wrapped around the Key Box and up to the surface

Flushing, Pressure Test

- ___ Flushed
___ Drip free under pressure

___ **APPROVED**

___ **NOT APPROVED**, Rejected because: _____

Inspector Signature: _____ Date: ____/____/____



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SERVICE CONNECT TURN ON INSPECTION

EWO #: _____
Physical Address: _____

End of Service Line (Terminates underneath home)

- ___ Brass tee installed
- ___ Brass plug installed in tee
- ___ Ball valve installed (Shark Bite or King Nipples acceptable - above ground only)

Key Box

- ___ Key box at surface: ☐ Non-driven way with 3" min. stickup ☐ Driven way in valve can
- ___ 5-star plug installed with anti-seize

Domestic Connection

- ___ Connection made per standard detail.
 - Note: For retrofits, the previous installation should have the ball valve installed.
- ___ Double check valve installed in the correct direction
- ___ Dielectric union for copper service lines
- ___ Copper service has not been grounded
 - Note: Domestic plumbing must be bonded to a grounding system supplied at electrical service AND electrically isolated from service line.

___ **APPROVED**

___ **NOT APPROVED**, Rejected because: _____

Inspector Signature: _____ Date: ____/____/____

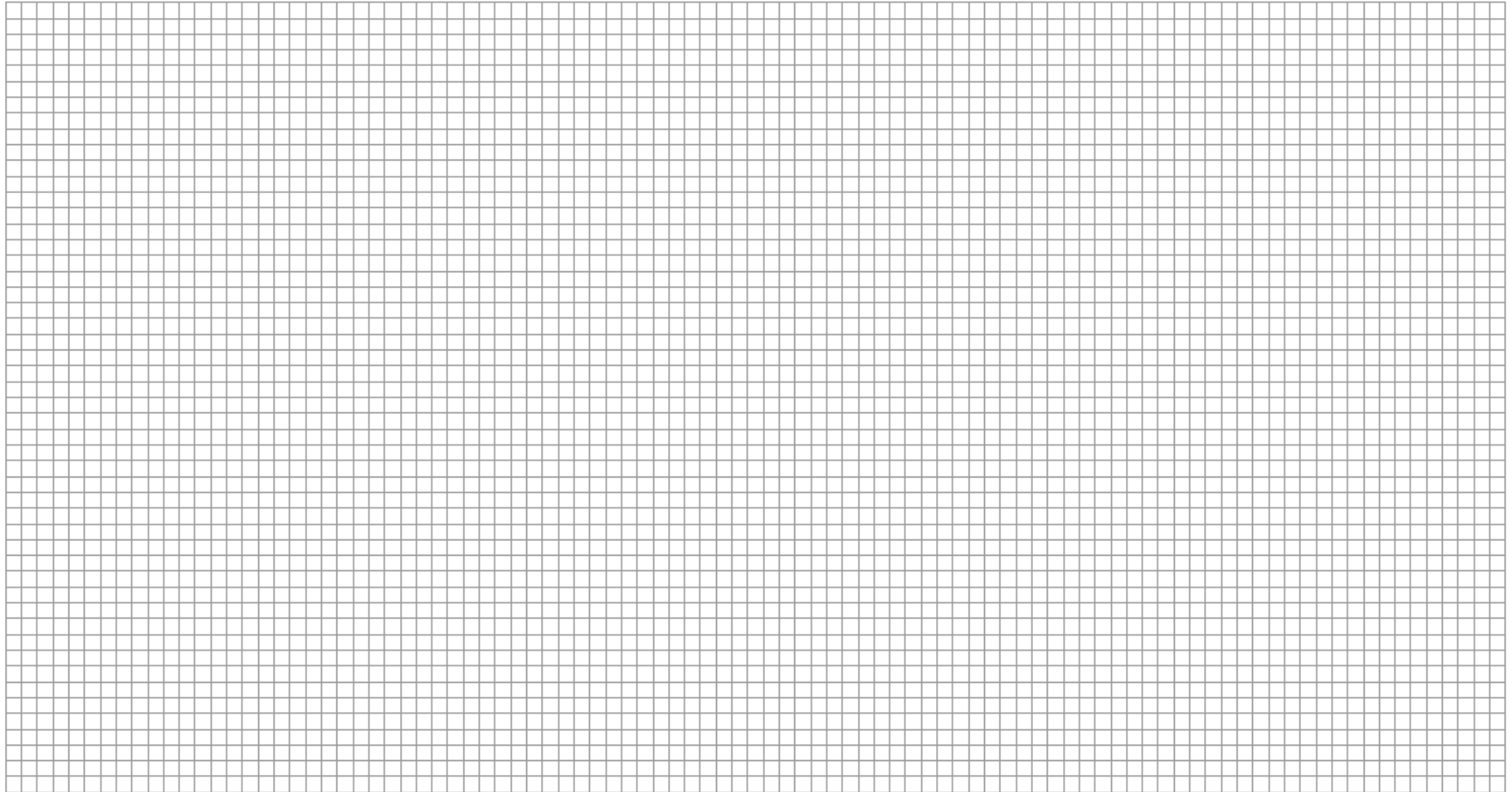


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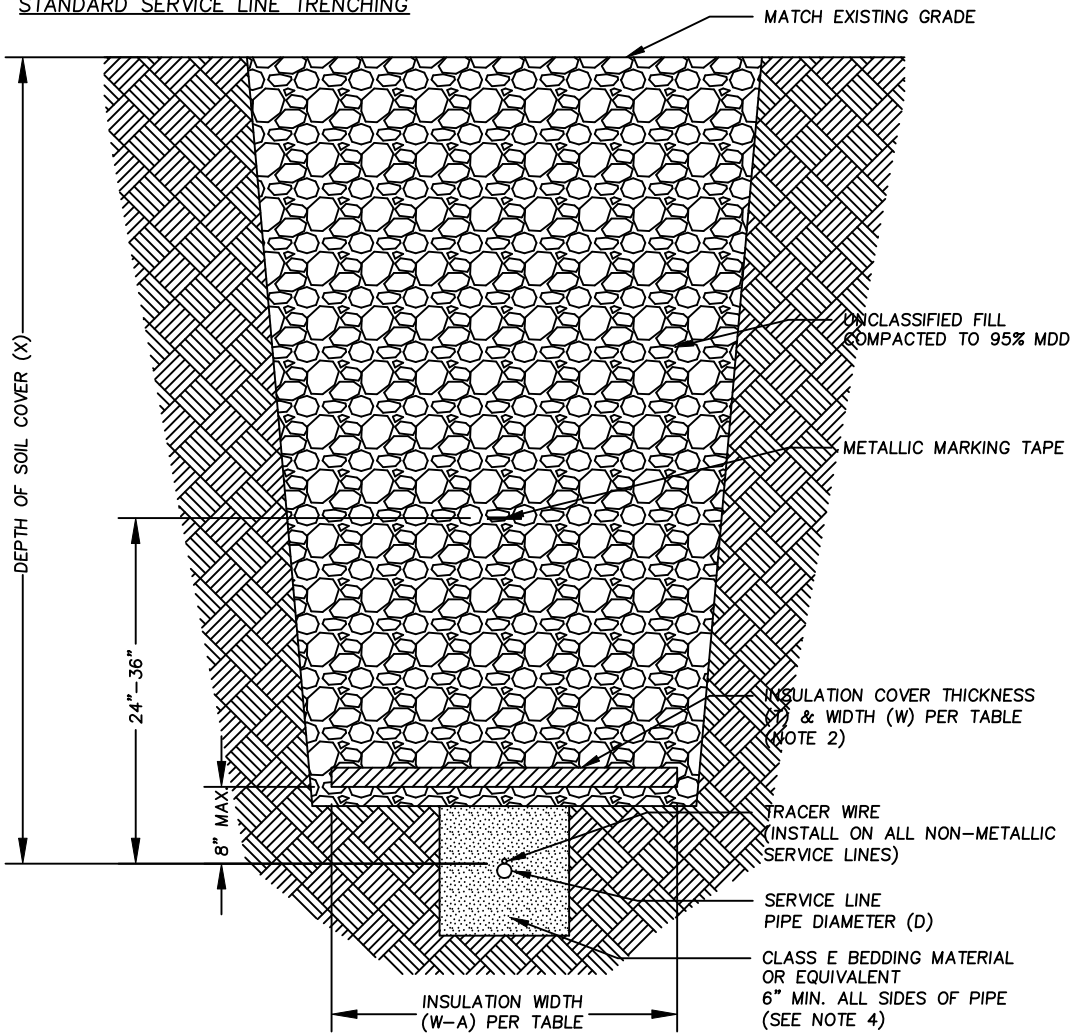
SERVICE CONNECT DIAGRAM

EWO #: _____
Physical Address: _____

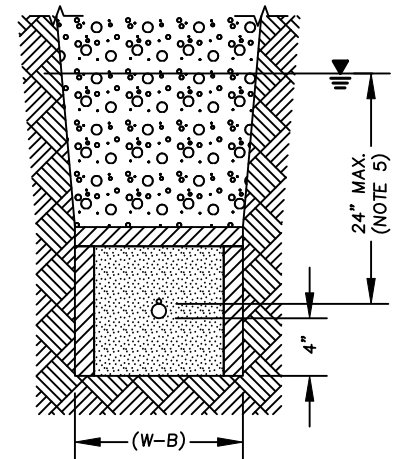
Inspector: Draw a sketch of the service connection during the trench inspection detailing the location of the keybox and other relevant features.



ALTERNATIVE A:
STANDARD SERVICE LINE TRENCHING



ALTERNATIVE B:
INSULATION ENCASEMENT



D1 TYPICAL SERVICE CONNECTION TRENCH SECTION
SCALE: NTS

NOTES:

- CONTRACTOR MAY SELECT BETWEEN ALTERNATIVE A (SHEET INSULATION) AND ALTERNATIVE B (INSULATION ENCASEMENT) AS SITE CONDITIONS ALLOW. ALTERNATIVE INSULATION CONFIGURATIONS MAY BE APPROVED AT THE DISCRETION OF THE UTILITY.
- INSULATION SHALL BE RIGID BOARD EPS CONFORMING TO ASTM C578 TYPE VII OR APPROVED EQUIVALENT. USE OF XPS IS NOT PERMITTED. INSULATION MUST HAVE A MINIMUM RATED COMPRESSIVE STRENGTH OF 60 PSI OR GREATER AND A MINIMUM THERMAL RATING OF R-18 OR GREATER PER 4" OF FOAM. INSULATION SHALL NOT BE BURIED GREATER THAN 8" ABOVE THE PIPE.
- BACKFILL MATERIAL SHALL BE COMPACTED IN 18" LIFTS TO 95% MDD BEGINING AT 4 FEET OF FILL ABOVE PIPE ELEVATION.
- PIPE BEDDING MATERIAL SHALL BE CLASS E MATERIAL OR 1/2" MINUS SAND CONFORMING TO AASHTO CLASSIFICATION A-1 OR A-3 AND NOT CONTAINING MORE THAN 12% FINES PASSING #200 SIEVE. BEDDING MATERIAL SHALL BE FREE OF COBBLES, ICE, CLAY, ORGANIC MATER OR OTHER DELETERIOUS MATERIAL.
- IF THE GROUNDWATER TABLE IS ENCOUNTERED ABOVE THE TARGET DEPTH, ALTERNATIVE B SHALL BE USED. THE WATER LINE SHALL NOT BE BURIED MORE THAN 24" BELOW THE WATER TABLE UNLESS BY EXCEPTION OF THE UTILITY IN AREAS KNOWN TO HAVE DYNAMIC GROUNDWATER FLUCTUATION.
- MINIMUM DEPTH TO BURY UNDER NON-DRIVEN WAYS IS 5 FEET. MINIMUM DEPTH TO BURY UNDER

ALTERNATIVE A - INSULATION DIMENSIONS

	NON-DRIVEN WAYS				DRIVEN WAYS		
X (ft)	5'	6'	7'	8'	8'	9'	10'
T (in)	4"	2"	2"	NR	2"	2"	NR
D (in)	W-A				W-A		
3/4"-2"	5'	3'	2'	NR	4'	2'	NR
>2"-6"	6'	4'	2'	NR	4'	4'	NR
>6"	7'	5'	3'	NR	4'	4'	NR

NR: INSULATION NOT REQUIRED

ALTERNATIVE B - INSULATION DIMENSIONS

	NON-DRIVEN WAYS				DRIVEN WAYS		
X (ft)	5'	6'	7'	8'	8'	9'	10'
T (in)	4"	2"	2"	NR	2"	2"	NR
D (in)	W-B				W-B (ft)		
3/4"-2"	2'	2'	2'	NR	2'	2'	NR
>2"-6"	2'	2'	2'	NR	2'	2'	NR
>6"	2'	2'	2'	NR	2'	2'	NR

NR: INSULATION NOT REQUIRED

D1

DESIGN: OM
DRAWN: OM
CHECKED: DK
DATE: 3/16/23
REV./DATE:

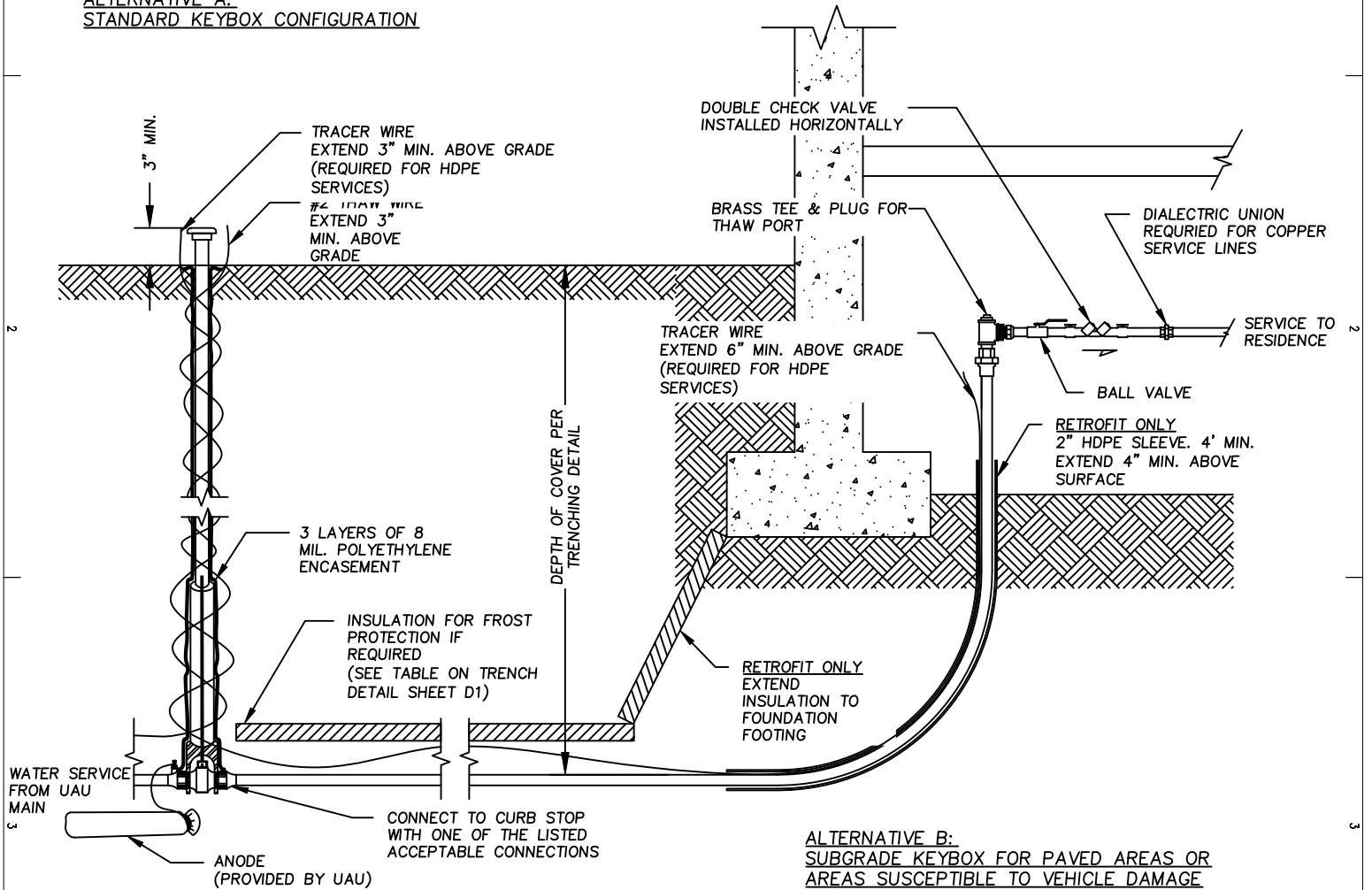
SERVICE CONNECTION
STANDARD DETAIL

SERVICE LINE
TRENCHING

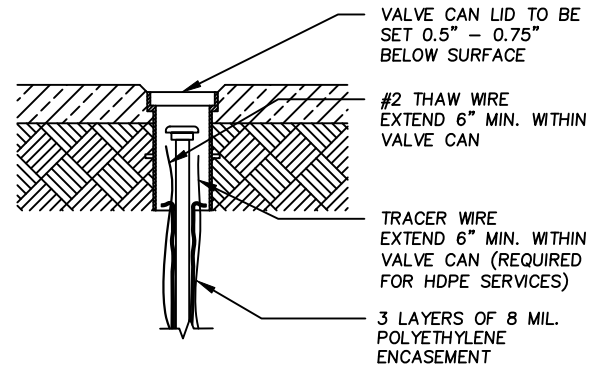
UNIFIEDAK
UTILITIES

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**ALTERNATIVE A:
STANDARD KEYBOX CONFIGURATION**



**ALTERNATIVE B:
SUBGRADE KEYBOX FOR PAVED AREAS OR
AREAS SUSCEPTIBLE TO VEHICLE DAMAGE**



D2 RESIDENTIAL SERVICE CONNECTION
SCALE: NTS

Approved Materials:

1. Plastic coated Type K Copper
2. SDR11 200 psi rated HDPE PE7410

Approved End Connection:

1. AWWA C800 compliant Pack Joint style compression fitting (stainless steel insert required for plastic pipe)
2. Polly-cam style threaded HDPE transition (lead free brass or stainless steel)
3. Flare adapter HDPE transition AWWA C800 compliant
4. Flare fitting (Type K Copper)

Approved Joining Methods:

1. HDPE Butt Fusion (1.5" and larger)
2. HDPE Socket Fusion (< 1.5")
3. AWWA C800 compliant Pack Joint Style compression fittings (stainless steel insert required for plastic pipe)
4. AWWA C800 compliant Flare fitting 3 part union (Type K Copper) wrapped in viscotac.
5. Silver solder (Type K Copper)

Prohibited Joining/End Connection Methods:

1. HDPE Butt Fusion on pipe smaller than 1.5"
2. HDPE Electrofusion in buried applications
3. King nipple and clamp
4. Push Fit fittings such as shark bite (Non-AWWA C800 Compliant)
5. Non-Silver Soldered Copper

Prohibited Materials:

1. Galvanized or Black Iron steel pipe or fittings
2. Leaded brass fittings
3. Uncoated copper pipe
4. PVC

D2

DESIGN: OM
DRAWN: OM
CHECKED: DK
DATE: 4/12/23
REV./DATE:

**RESIDENTIAL SERVICE
CONNECTION STANDARD**

**SERVICE CONNECTION
TO STRUCTURE**

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