VILLAGE OF MINOOKA

Construction Standards and Specifications For Underground Utilities

General Provisions

The underground utilities general provisions shall be constructed in accordance with the requirements of the Federal or State Statutes and Regulations; Illinois Environmental Protection Agency regulations, Standard Specifications for Road and Bridge adopted by the Illinois Department of Transportation, latest edition; Standard Specifications for Water & Sewer Main Construction in Illinois (latest edition); Illinois Recommended Standards for Sewage Works, latest version; and the recommended Standard for Water Works latest edition; Subdivision Regulations for the Village of Minooka; in addition, the following specifications shall apply:

General

- All materials shall be manufactured in the United States of America. A letter of origin will be provided if requested by the Village.

- The Contractor is solely responsible for jobsite safety.

Cutting Existing Streets

- A permit is required prior to the start of any construction on Public Easements or Right of Ways that would cut, alter, grade or excavate the surface or support for the surface of any street, road, highway, parkway, curb, sidewalk or way within the Village of Minooka.

- Open cutting of existing streets is not allowed unless written permission is obtained from the Superintendent of Public Works.

- When open cutting of existing streets is allowed, the Superintendent of Public Works may require the trench will be backfilled to the top of the trench with controlled low strength concrete, asphalt binder, and the top two inches of the patch Bituminous Surface Course. Concrete roadways shall be pinned in with concrete at the same thickness.

- The pavement shall be sawcut prior to removal. The width fo the pavement to be removed shall be the width of the trench plus two feet (one foot on each side). The sawcut shall provide a clean edge and any damage caused to the existing pavement shall be re-cut to provide a clean edge.

- A permit may be obtained by contacting the Superintendent of Public Works of the Village of Minooka.

- Compliance with the Village of Minooka Code 10-1-15 Excavations of Public Ways shall be followed.

Jacking and Boring

- This work shall consist of the installation of a steel casing, jacked, for underground Village utilities: watermain, sanitary sewer, storm sewer, etc.

- Casing installation under railroad tracks, pipelines, county and state roadways, etc. shall be approved by the appropriate agency which has jurisdiction.

- Steel casing pipe shall be in accordance with American National Standards Institute (ANSI) B36.10 with a yield strength of 35,000 psi minimum and a minimum wall thickness per the following table.

MINIMUM WALL THICKNESS FOR STEEL CASING PIPE

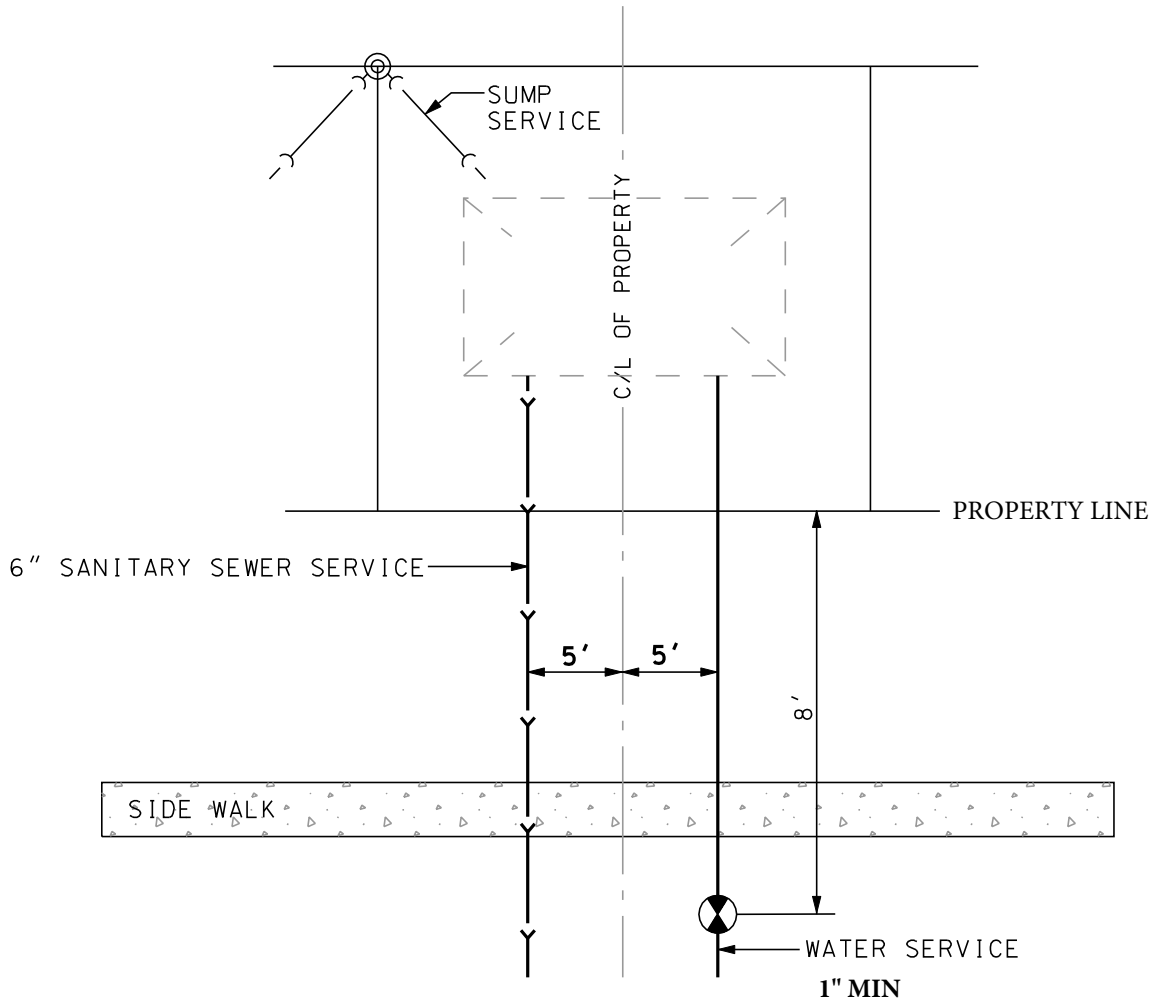
Nominal Inside Diameter (in.)	Nominal Wall Thickness inches (mm)
14 and 16	0.188 (5.0)
18	0.250 (5.5)
20	0.281 (20)
22	0.312 (8.0)
24	0.344 (9.0)
26	0.375 (9.0
28	0.406 (10.0)
32	0.438 (11.0)
34 and 36	0.469 (12.0)
38	0.500 (13.0)

- Welds shall be in accordance with the American Welding Society (AWS) D1.1 and be continuous circumferential welds. The steel casing pipe shall have a bituminous coat on the inside and outside surface in accordance with the American Association of State Highway and Transportation Officials (AASHTO) M190.

- Casing chocks shall be stainless steel, restrained chocks spaced at ten foot (10') intervals through the casing pipes and manufactured by the Cascade, CCI Pipeline Systems Model CSS-8.

- Casing end seals shall be synthetic rubber with stainless steel bonding as manufactured by Cascade Waterworks Mfg. Co. – Model CCES, CCI Pipeline Systems Model ESC, or approved equal. Casing pipe ends shall be marked with two-inch (2") diameter Schedule 80 steel pipe welded to the casing pipe and extending three feet (3') above ground with sign six- inches by six-inches (6" x 6") which states Village of Minooka.

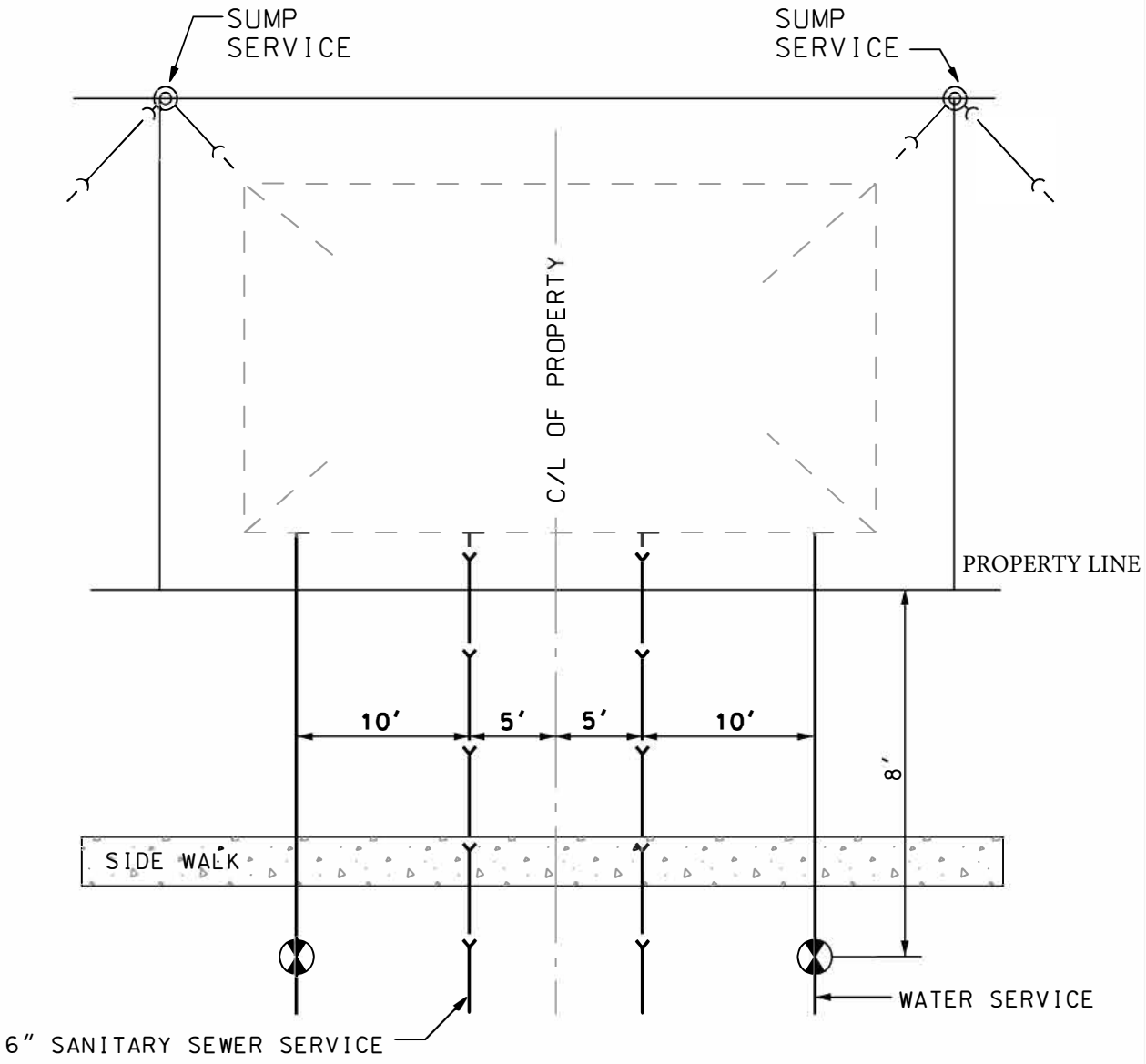
SERVICE INSTALLATION
FOR SINGLE FAMILY DETACHED DWELLING



MINOOKA STANDARD

VERSION 1.0

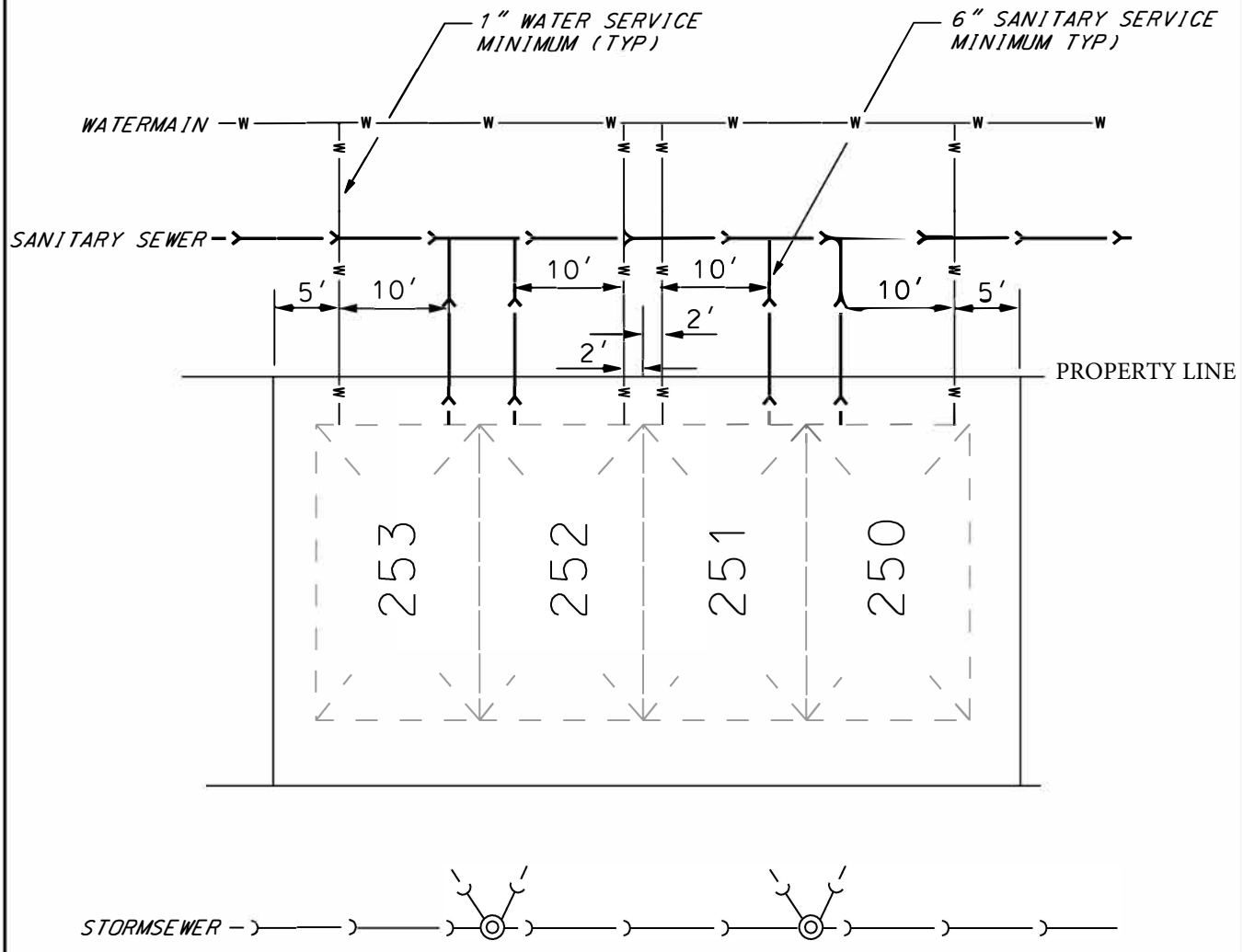
SERVICE INSTALLATION
FOR TWO FAMILY DWELLING SIDE BY SIDE



MINOOKA STANDARD

VERSION 1.0

TYPICAL MULTI–FAMILY SERVICE LOCATIONS

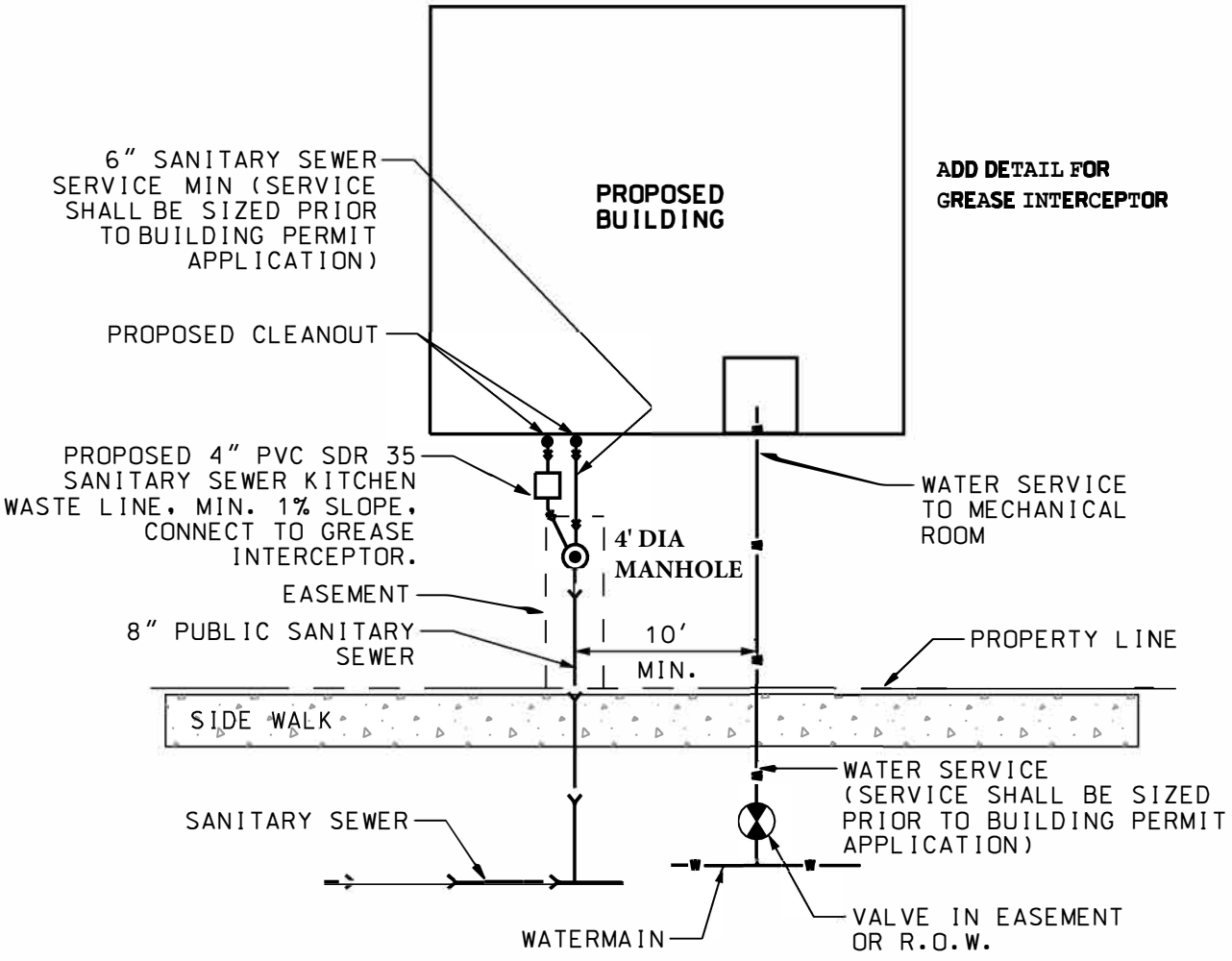


MINOOKA STANDARD

VERSION 1.0

SERVICE INSTALLATION

COMMERCIAL BUILDING
TYPICAL SERVICE LOCATIONS

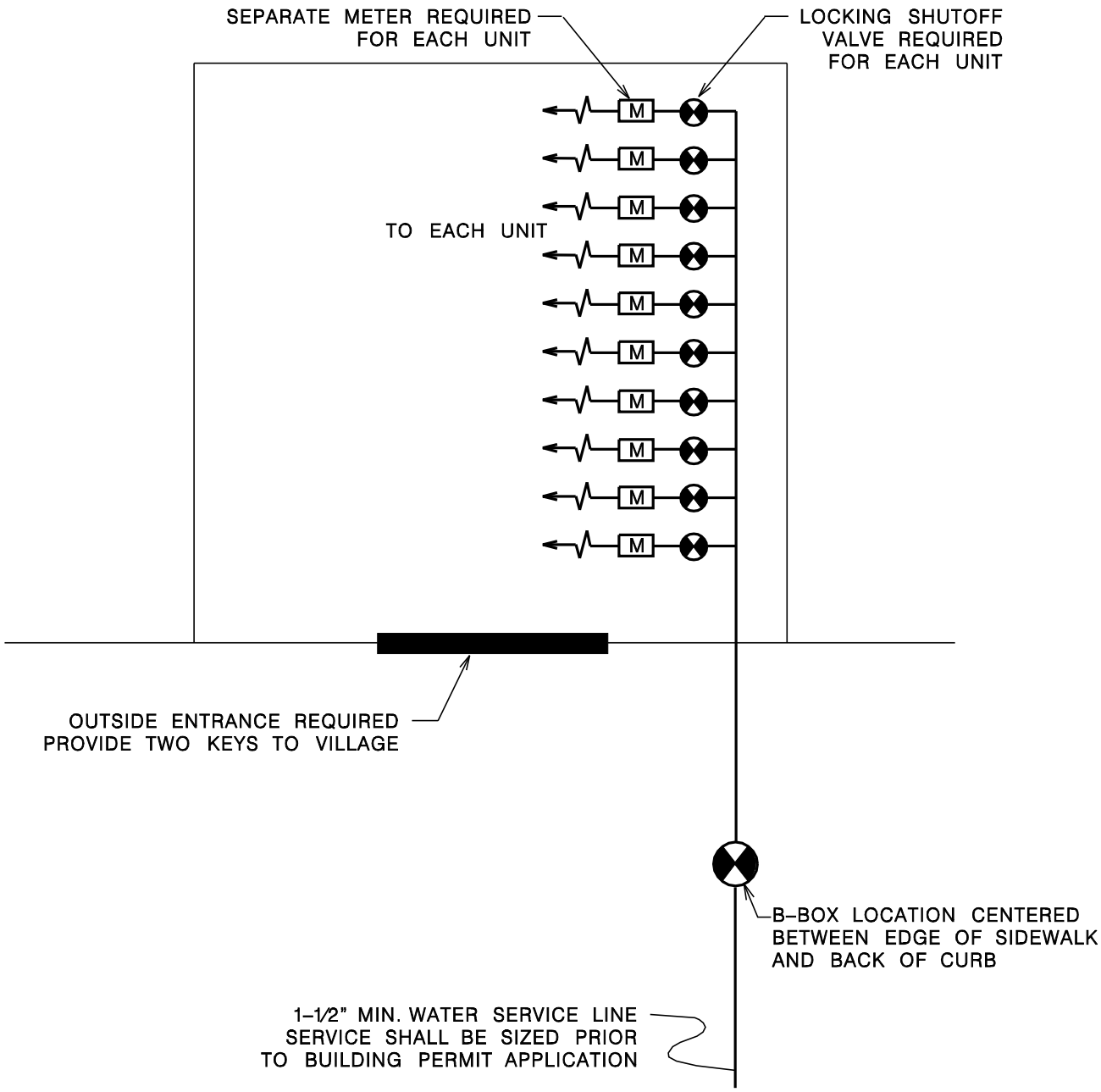


MINOOKA STANDARD

VERSION 1.0

MULTI UNIT RESIDENTIAL, COMMERCIAL & INDUSTRIAL METER ROOM INSTALLATION

– METERS SHALL BE INSTALLED IN A HEATED ROOM



MINOOKA STANDARD

VERSION 1.0