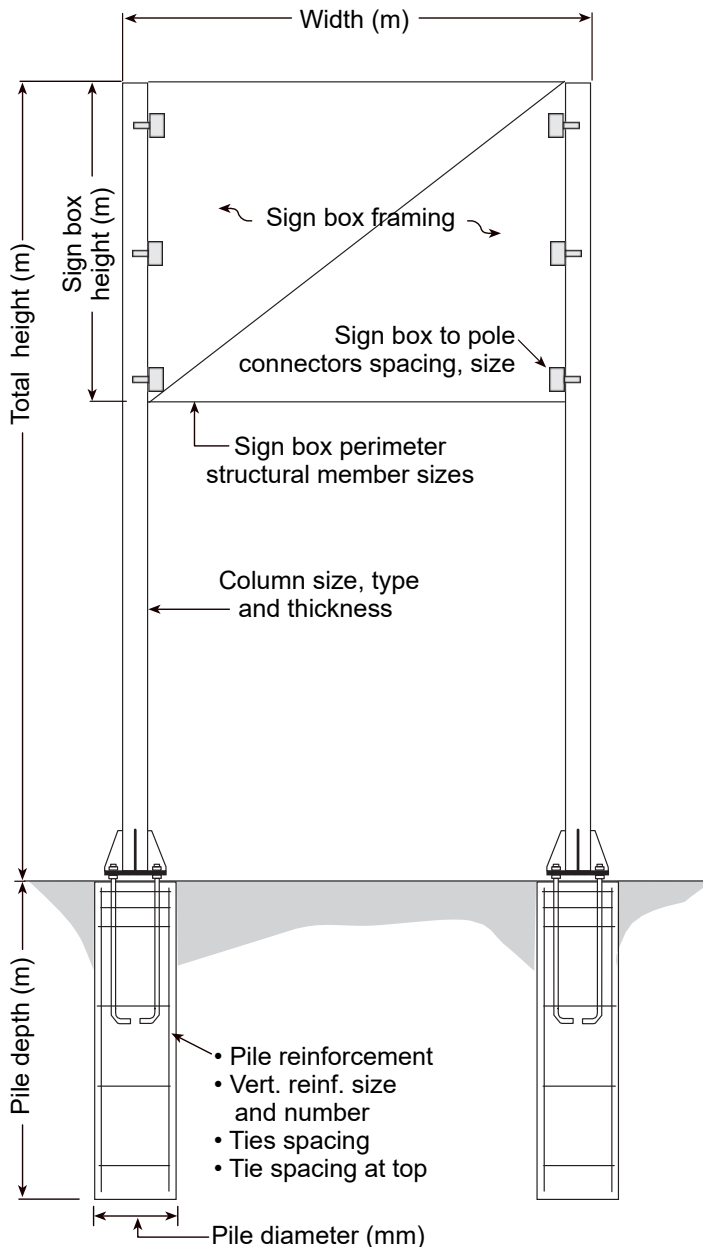


# Free-Standing Signs Structural Requirements

A guide to the structural requirements for free-standing signs

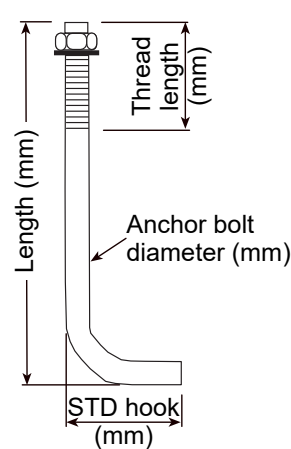
## Section



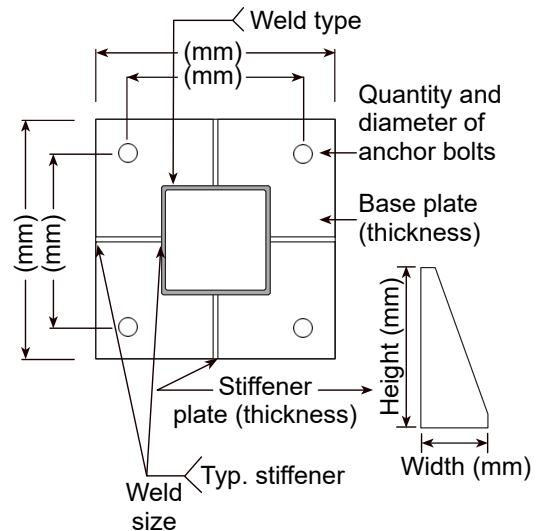
Sign Address:

Engineer's Seal and  
Signature, Date

## Anchor Bolt



## Base Detail Plan



## General Notes:

- Design wind = (kPa)
- Steel grade 350W
- All welding to be CSA W59
- Anchor bolt yield strength (MPa)
- Anchor bolt hot dip galvanized
- Concrete pile (MPa), cement type HS
- Soil type: soft, firm, stiff
- Soil lateral resistance capacity (MPa/m)

# Structural Requirements

The following information shall be shown on the structural plans for free-standing sign permits:

- Pile size, diameter, depth, spacing, and reinforcement
- Concrete strength (MPa) and cement type HS
- Pole / pylon / column steel strength, size and type. If hollow steel section, then thickness shall be provided.
- Base plate size and thickness
- Anchor bolt type (ASTM), quantity, lengths, and diameter
- Stiffener plates (if used)
- Weld type and thickness
- Pole height and sign box dimensions
- Sign box structural frame construction
- Sign box connection to poles / columns
- If connection is using bolts, provide bolt size and diameter. If using weld, provide weld size.
- Signs using anchor bolts, welds, or direct embedment, etc. shall be engineered and bear engineer's seal and signature
- The requirement to provide engineered plans rests with the Authority Having Jurisdiction
- References to applicable codes and standards
- Seismic forces have been considered in the design
- Design as per MBC 2024 Edition
- Engineer shall provide soil friction, soil bearing, and soil lateral pressure

**Note:** separate electrical permits are required for all electrical connections.

## Questions?

### Commercial building plan examination

[ppd-bpx@winnipeg.ca](mailto:ppd-bpx@winnipeg.ca)

### Zoning & permit applications appointments

[ppd-permitappointments@winnipeg.ca](mailto:ppd-permitappointments@winnipeg.ca)

### Commercial electrical plan examination

[ppd-epx@winnipeg.ca](mailto:ppd-epx@winnipeg.ca)

### Zoning & development permits

[ppd-zoningapplications@winnipeg.ca](mailto:ppd-zoningapplications@winnipeg.ca)



**Planning, Property & Development**  
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Zoning & Permits Branch

Unit 31 - 30 Fort Street, Winnipeg, Manitoba R3C 4X7 | [winnipeg.ca/ppd](http://winnipeg.ca/ppd)

Permits Direct Line

204-986-5140 | [ppd-permit@winnipeg.ca](mailto:ppd-permit@winnipeg.ca)

Updated: June 2024

Every effort has been made to ensure the accuracy of information contained in this publication. However, in the event of a discrepancy between this publication and the governing City of Winnipeg By-law, the By-law will take precedence.