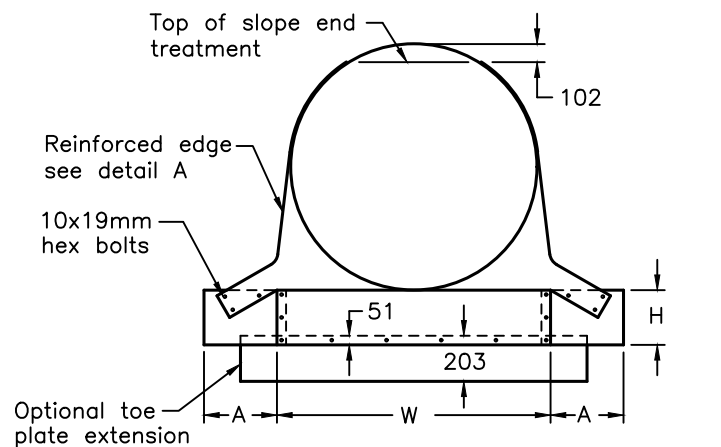
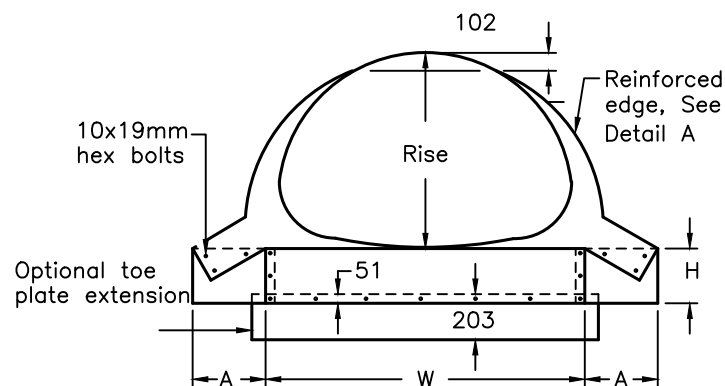


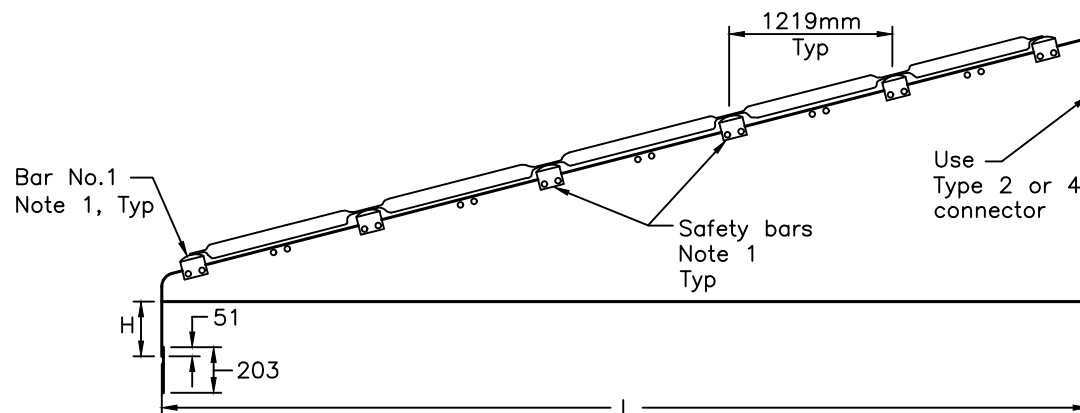


FRONT VIEW

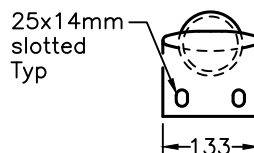
CIRCULAR SMOOTH WALLED PIPE



FRONT VIEW
ARCHED PIPE



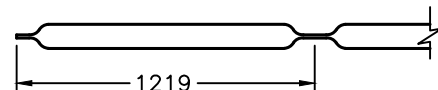
SIDE VIEW FOR CROSS DRAINAGE STRUCTURE



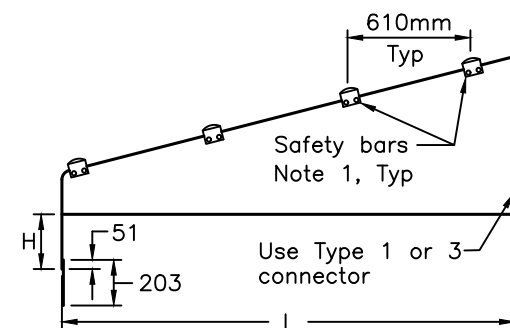
FRONT VIEW



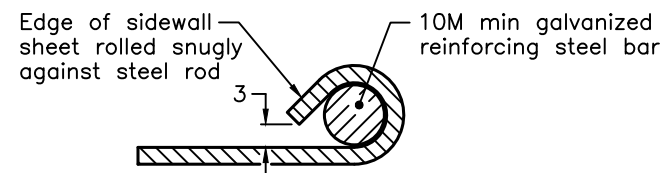
SIDE VIEW
TRANSVERSE SAFETY BARS



SIDE VIEW
LONGITUDINAL SAFETY BAR



SIDE VIEW OF PARALLEL DRAINAGE STRUCTURE



DETAIL A

NOTES:

- 1 Number of bars required will vary depending on the length of the end section.
- A This OPSD shall be read in conjunction with OPSD 801.040, 801.041, and 801.042.
- B Toe plate extensions shall be the same thickness and material as end section. Dimensions shall be overall width less 150mm by 200mm high.
- C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING

**CULVERT AND SEWER
SAFETY SLOPE END TREATMENT
INSTALLATION DETAILS**

Nov 2024

Rev 4

OPSD 801.043

