

1 General

1.1 RELATED WORK

.1 Coordinate the requirements of this section with all other sections, including but not limited to:

.1 Section 02070 Demolition, Removal and Salvage

1.2 QUALITY CONTROL

.1 **City of Saskatoon, Parks Branch** to approve timber bollard material.

.1 Timber bollards treated with Chromated Copper Arsenate (CCA) or pentachlorophenol are prohibited.

1.3 INSPECTIONS

.1 Notify **Consultant** for inspection of the following:

.1 Layout of timber bollards, before installation.

.2 Installation of specified type of timber bollard.

2 Products

2.1 TIMBER BOLLARDS

.1 Timber Bollards: New, 150 - 200mm diameter construction grade Cedar, Pine, Fir, or Hemlock as approved, structurally sound, uniform appearance and size, free of splints, cracks, and open knots.

.1 Pressure treated with Alkaline Copper Quaternary (ACQ), or Copper Azole (CA), conforming to CSA-080.

.2 Timber Bollards: Salvaged from site and approved for re-use.

2.2 COMPOSITE BOLLARDS

.1 Composite Bollard: New, 150 x 150 x 2400 Impact Post as manufactured by Xpotential Products Inc, Winnipeg MB, or approved equivalent.

2.3 OTHER MATERIALS

.1 Paint for end cuts (pressure treated wood only): Alkaline Copper Quaternary (ACQ), or Copper Azole (CA), conforming to CSA-080.

3 Execution

3.1 LAYOUT

.1 Establish and maintain line and grade controls using appropriate survey personnel and equipment.

.1 Contractor is responsible for layout accuracy

3.2 EXCAVATION

.1 Excavate with post hole auger to depths as indicated.

.1 Remove all loose materials and compact.

3.3 TIMBER BOLLARD INSTALLATION

.1 Install timber bollards true to line and level ensuring timber bollards are plumb.

.2 Backfill in 150mm layers, compacting each layer before placing succeeding layer.

.3 Cut top of posts and paint end cuts thoroughly with approved preservative.

.4 Return unused salvaged timber bollards to the **City of Saskatoon, Parks Branch**.

.5 Restore surfaces to required grade and remove excess material from site.

3.4 COMPOSITE BOLLARD INSTALLATION

.1 Cut impact post in half, per manufacturers recommendations.

.2 Install cut end below grade.

.3 Install bollards true to line and level ensuring bollards are plumb.

.4 Backfill in 150mm layers with native fill material, compacting each layer before placing succeeding layer.

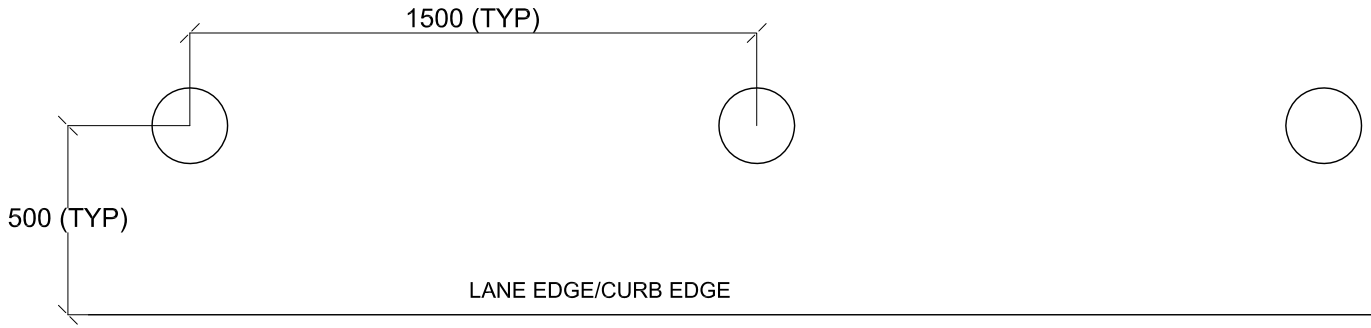
.5 Restore surfaces to required grade and remove excess material from site.

3.5 CLEAN UP

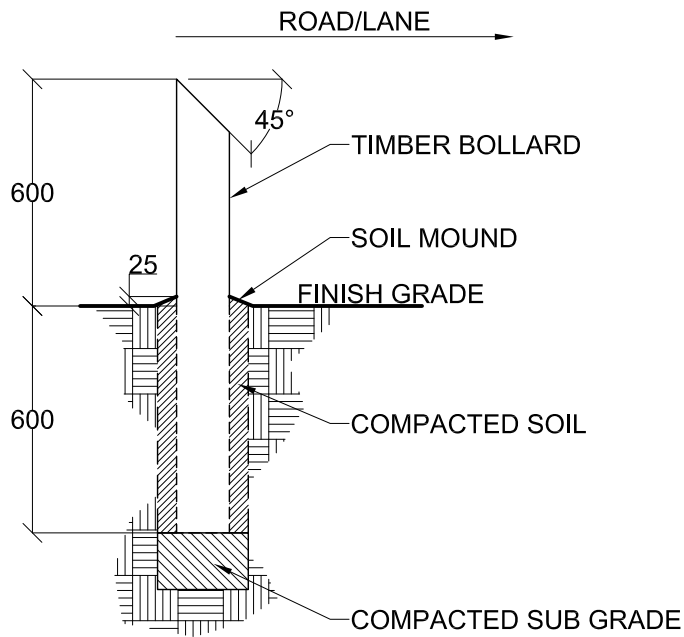
.1 Clean adjacent walks, road and other surfaces at the end of each working day.

END OF SECTION

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PLAN



NOTE:
 1. All units are in millimeters U.N.O.

SECTION



Drawing Title

Timber Bollard

Drawing No.

02841-01

Drawn: HMK

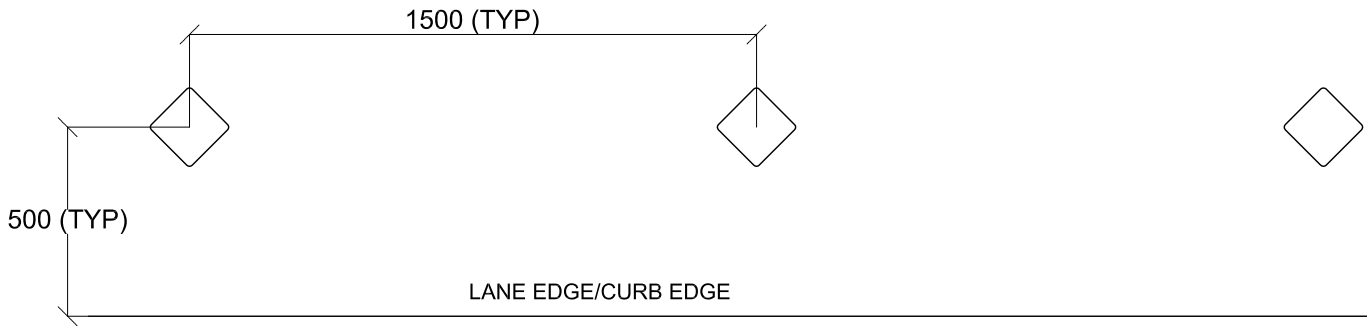
Checked: AO

Date Y/M/D 09/11/26

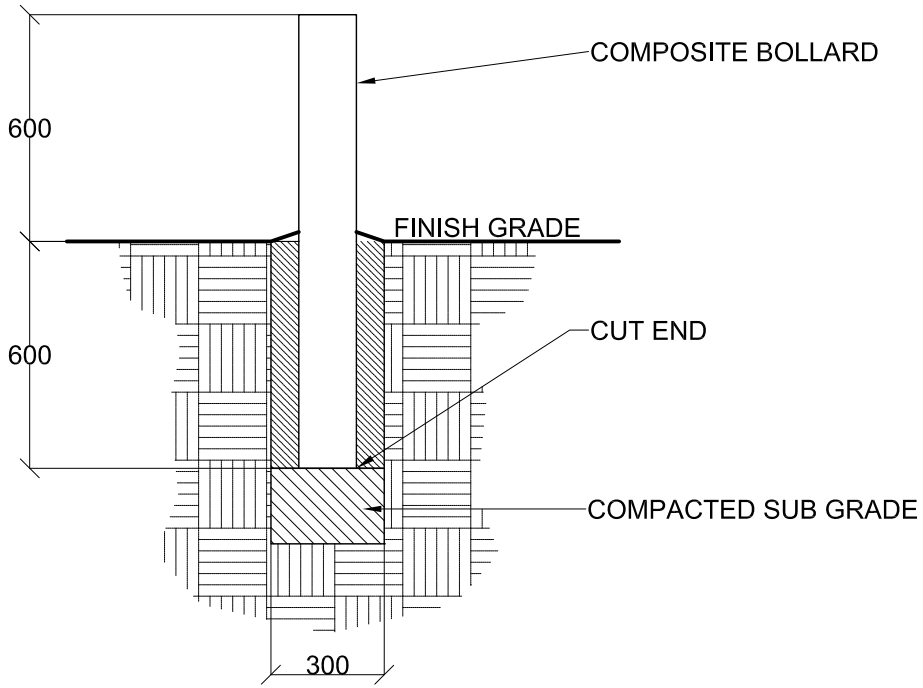
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2012 Standard Detail

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PLAN



NOTE:
1. Dimensions are in millimetres unless otherwise noted

SECTION



Drawing Title		Composite Bollard	
Drawn: HMK	Checked: AO	Date Y/M/D 09/11/26	Scale: 1:20

Drawing No.	02841-02
2012 Standard Detail	