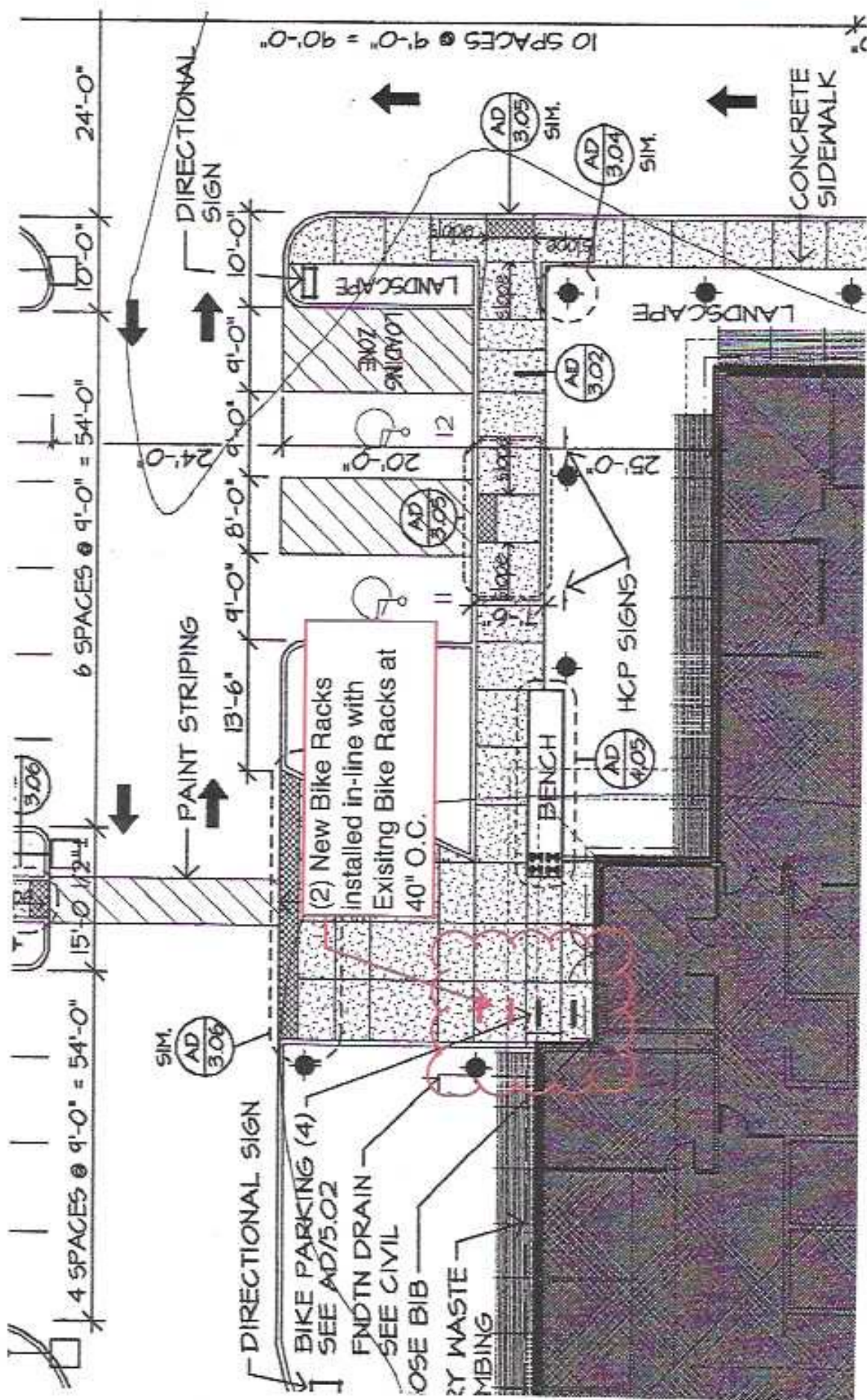
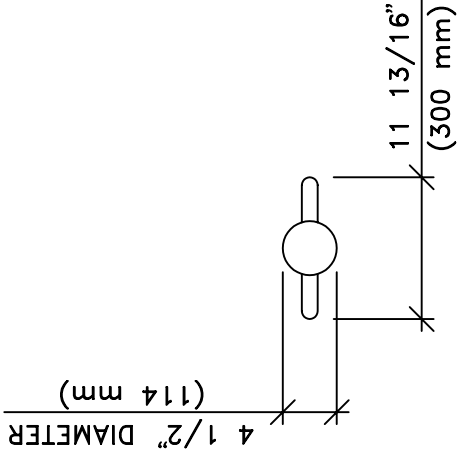
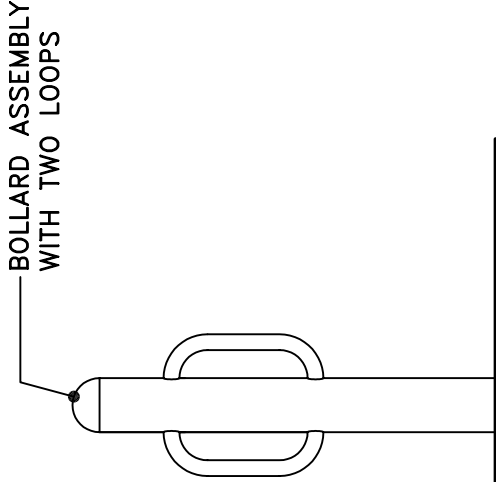






TOP VIEW

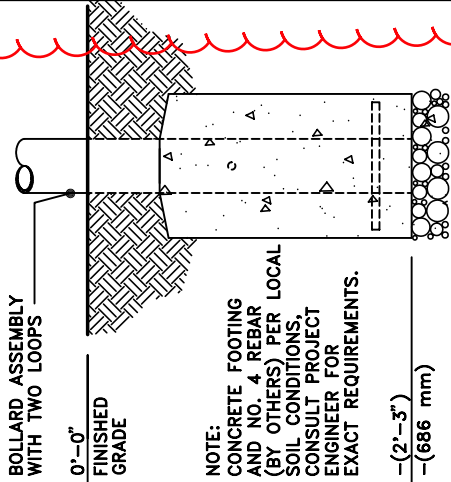


2'-11 1/4"
(895 mm)

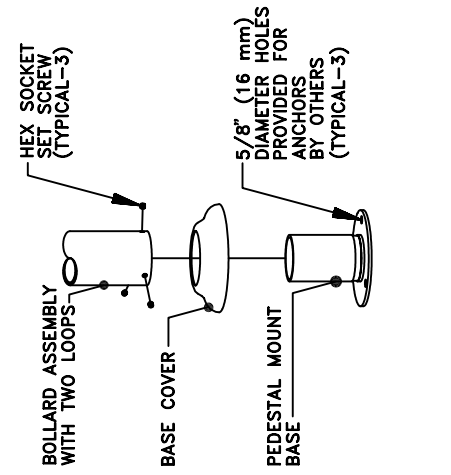
0'-0"

FINISHED GRADE

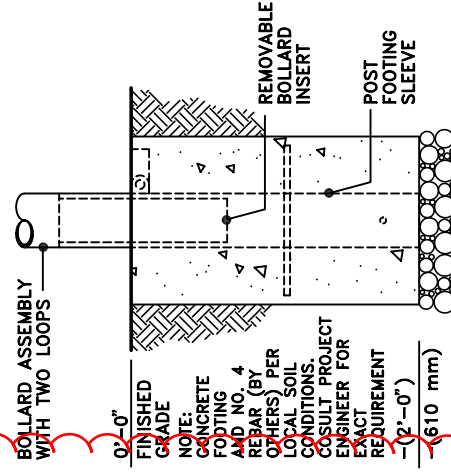
FRONT VIEW



2172-E (DIRECT EMBEDMENT)



2172-P (PEDESTAL MOUNT)



2172-R (REMOVABLE MOUNT)

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COLUMBIA CASCADE COMPANY
Makers of Timberform®, PipeLine®, RePlay®, Timberform®-2, InterPlay®, CycLoops® and CycLoocker® Products.
1300 S.W. Sixth Avenue, Suite 310 Telephone 503/223-1157
Portland, Oregon 97201-3464 Facsimile 503/223-4530
U.S.A.

Model No. 2172
BOLLARD CYCLOOPS WITH TWO LOOPS



Scale 3/4"=1'-0"

Drawn by: AT

07-04-10

CK'd by:

WWW.TIMBERFORM.COM

Drawing No. W-2172

Sheet 1 of 1

No. 2172 Bollard CycLoops Bicycle Rack

Bollard shall be TimberForm® Bollard CycLoops™ model No. 2172, to accommodate two bicycles, in the material, color finish and mounting style selected by the owner's representative and in the quantity shown on the bill of materials or the project drawings. Manufacturer, Columbia Cascade Company, 1300 SW Sixth Avenue, Suite 310, Portland OR 97201-3464 U.S.A.

1. Materials

Bollard post shall be 4 inch i.d. schedule 40 mild steel seamless pipe with a minimum wall thickness of 7/32 inch. Top of bollard post shall be fitted with a cast aluminum (384 alloy) hemi-dome end cap permanently adhered in place. *Easily vandalized friction fit end caps are not permitted.* Loops shall be 1 inch i.d. schedule 40 mild steel seamless pipe.

Embedment (-E) mount option bollard post shall include two each 9/16 inch diameter thru holes for No. 4 re-bar (by others). Pedestal (-P) mount option shall include a base consisting of a 3-7/8 inch o.d. mild steel tube welded to 1/4 inch mild steel plate and a matching decorative base cover to conceal three each anchors (by others). Removable (-R) mount option shall include an in-ground 4 inch i.d. schedule 40 mild steel seamless pipe sleeve and a 3-7/8 inch o.d. mild steel tube insert; bollard post and in-ground sleeve shall have interlocking tabs for padlock (by others).

2. Construction

Bollard post with loops shall be permanently welded into a single unit. Welds shall be smooth and continuous with no gaps or pin holes. Final product shall be free of weld spatters and burrs.

3. Finishes

Steel and cast iron parts shall be coated with CASPAX-7™, a tough, opaque, UV resistant exterior grade polyester powder coating applied to a minimum thickness of 6 mils. *Liquid, epoxy or lead-containing powder coatings are not acceptable.*

Preparation of the mild steel substrate shall incorporate the phosphate system. Substrate preparation shall consist first of mechanical cleaning to remove heavy mill scale, rust, varnish, grease, etc., with surfaces uniformly abraded to promote quality of finish coating. Chemical cleaning in accordance with TT-C-490C, Methods I and III shall remove impurities from the surfaces.

After the two-step cleaning process, the metal substrate shall receive a corrosion-inhibiting iron phosphate pre-coating in accordance with TT-C-490C, Type II, prior to the application of the powder color coat. The color coating shall be applied by the electrostatic method and then oven-cured at 400 degrees Fahrenheit to chemically bond the coating to the substrate and to render the coated metal resistant to abrasion, impact, chipping, weathering, and rusting.

-or-

Mild steel (-G) bicycle rack shall be hot-dipped galvanized per ASTM 123 after complete fabrication.

-or-

Stainless steel (-S) bicycle rack shall have No. 4 polish finish.