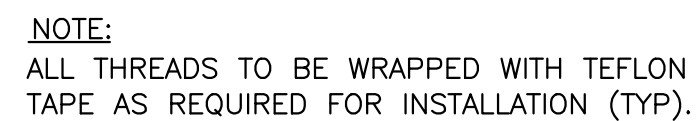


NOT TO SCALE	PL15-4A	012709
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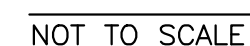
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BOLLARD SLEEVE

- NOTES:

1. PLACE 6" WIDE, YELLOW CLASS 4 REFLECTIVE TAPE (PER STANDARD SPECIFICATIONS, SECTION 716), 4" DOWN FROM TOP, FOR FULL DIAMETER ON ALL BOLLARDS.
2. CONTRACTOR TO ASSURE THAT BOLLARDS ARE PLACED TO ALLOW FULL ACCESS TO THE PROTECTED FACILITY.
3. INSTALL LVWVD PROVIDED LOCK AFTER INSTALLATION IS COMPLETE
4. CONTRACTOR TO SUBMIT SHOP DRAWING ON BOLLARD ASSEMBLY

NOT TO SCALE



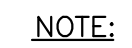
COAT AND WRAP ALL METAL SURFACES IN ACCORDANCE WITH LVWD SPEC SECTION, PROTECTIVE COATINGS. ALL CONCRETE SHALL BE 3000 PSI MINIMUM, 28 DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED AGAINST UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN CALCULATIONS ARE TO BE SUBMITTED TO LVWD FOR APPROVAL IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 PSF. ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

* #5 REBAR ** #6 REBAR

- NOTE:

USE OF THRUST BLOCKS FOR PIPE DIAMETERS GREATER THAN 12" REQUIRES
PRIOR DISTRICT APPROVAL AND WILL BE EVALUATED ON A CASE BY CASE BASIS.

NOT TO SCALE



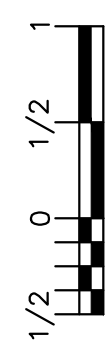
USE ONLY NATIVE SOIL FREE OF ROCKS AND CLODS FOR BACKFILL AROUND ANODES. PRE-PACKAGED ANODES SHALL HAVE 6" LIFT OF COMPACTED NATIVE BACKFILL. AFTER BACKFILL IS IN PLACE, SATURATE THE AREA WITH TEN (10) GALLONS MINIMUM OF WATER. AFTER ALL WATER HAS BEEN ABSORBED CONTINUE BACKFILLING.

NOT TO SCALE



CLV DWG #

VERIFY SCALE



BAR REPRESENTS
ONE AND ONE-HALF
INCHES ON ORIGINAL

PRV CIVIL DETAIL 1

DRAWN BY: CHRISTOPHER G. BLANK
CHECKED BY: 11/02/07

RECOMMENDED BY: _____

CONTRACT NUMBER

DRAWING NUMBER C X
SHEET X OF -