**GATE PLACEMENT**

- **GATE TYPE & HEIGHT TO MATCH ADJACENT FENCES**
- **FENCE/ACCESS EASEMENT/TRACT LINE**
- **GATE POST - NOT ATTACHED TO FENCE**
- **12' MIN. CLR.**
- **DRIVING SURFACE**

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**BOLLARD PLACEMENT**

- **EDGE OF ACCESS ROAD**
- **15' MIN.**
- **FIXED BOLLARD**
- **REMOVABLE BOLLARD**
- **6' MAX.**
- **12' MIN. CLR.**
- **DRIVING SURFACE**

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**FINISHED GRADE OF PAVING**

- **2'-0"**
- **10 5/8"**

**POST BRACKET SUPPORT**

- **3/8" GALVANIZED A36 STEEL PLATE (TYPICAL)**
- **1/2" CLR.**
- **HEAVY-DUTY HASP - PROVIDE ADEQUATE CLEARANCE BETWEEN PAVEMENT & HASP TO ALLOW HASP TO LAY FLAT WHEN OPEN**
- **INSTALL POST BRACKET SUPPORT BURIED FLUSH IN CONCRETE**
- **1/4" FILLET WELD (BOTH SIDES)**

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**1" BEVEL (TYPICAL)**

**BOLLARD MANUFACTURED FROM 8"x8" DOUGLAS FIR, #2 OR BETTER, PRESSURE-TREATED W/LP-22**

**12" REMOVABLE BOLLARD INSTALLATION:**
- **REMOVABLE BOLLARD BASES ARE SET IN A 12" DIAMETER HOLE, 30" DEEP, AND BACKFILLED W/6" GRAVEL ON BOTTOM AND TO FINISHED GRADE WITH CONCRETE. LOCK HASP FACES THE STREET**

**FIXED BOLLARD INSTALLATION:**
- **SET FIXED BOLLARDS IN A 16" DIAMETER HOLE, 30" DEEP, AND BACKFILL WITH 6" GRAVEL ON BOTTOM AND TO FINISHED GRADE WITH CONCRETE**
- **INCISE 1/4" TO FIT REMOVABLE BOLLARD TO BASE BRACKET**

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**SLIDE-THROUGH POST BRACKET - 3/8" GALVANIZED A36 STEEL PLATE**

(3) **7/16" HOLES FOR 7/16"x3" LAG SCREWS (EA. SIDE)**

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**HEAVY-DUTY HASP**

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**City of Bellevue SURFACE WATER UTILITY**

**TITLE:** GATE/BOLLARD PLACEMENT

**MARCH, 1996 NO SCALE**

**NO. D-45**