



**COSUMNES COMMUNITY SERVICES DISTRICT  
FIRE DEPARTMENT**

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**FIRE PREVENTION CONSTRUCTION STANDARDS  
TYPICAL DETAILS FOR FIRE RISER UNDERGROUND FLOOR PENETRATION,  
BOLLARD SIZING AND PLACEMENT, AND FIRE HYDRANT CLEARANCE**

Standard Number: FPCCH-2010

Original Effective Date: 4/8/2019

Revision Date: 6/18/2025

Code Section: 2022 California Fire Code

**STANDARD**

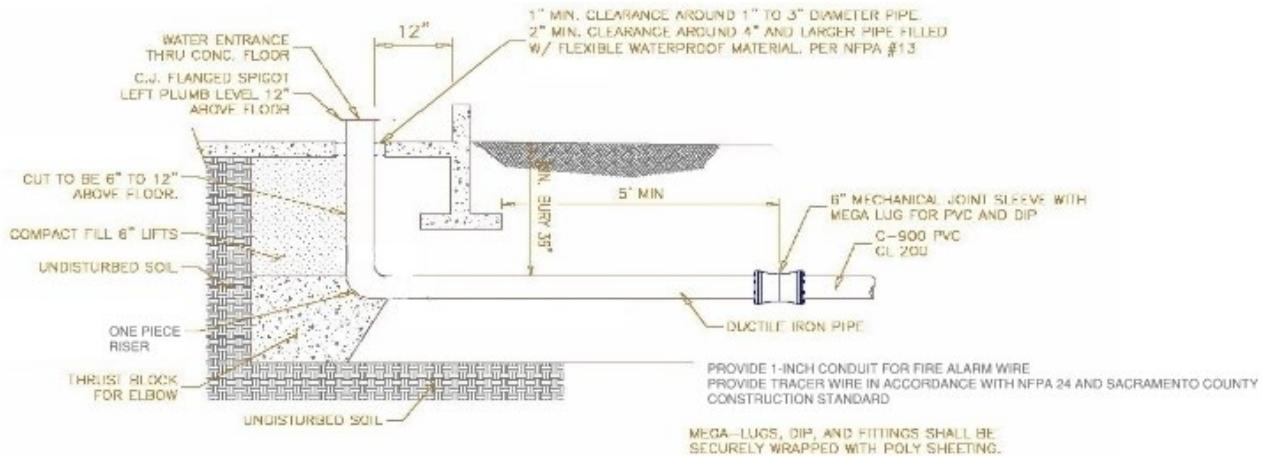
2010.1 This handout provides typical minimum design standards for underground fire risers, bollard sizing and placement, and fire hydrant clearance requirements.

**PURPOSE AND SCOPE**

2010.2 This handout helps the user understand the minimum design details relating to distance of vegetation and bollard placement to a fire hydrant, typical fire riser line into the building diagram, and typical bollard design requirements.

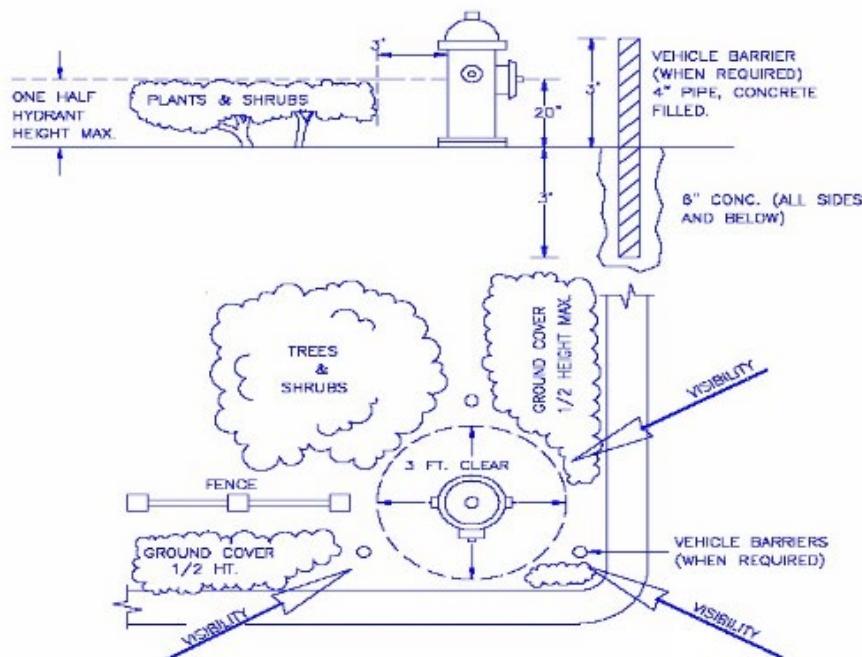
**APPLICATION**

2010.3 Below are examples of typical details that are shown on construction plans to clearly indicate design intent.



## FIRE RISER UNDERGROUND FLOOR PENETRATION DETAIL (TYP)

NTS



## HYDRANT CLEARANCE GUIDELINES (TYP)

NTS