



PERMIT SUBMITTAL REQUIREMENTS FOR Fire Connection

PERMITTING & DEVELOPMENT
BUILDING
DIVISION
121 5th Avenue N
P: 425.771.0220
www.edmondswa.gov

The purpose of this handout is to assist the public in complying with the detailed permit submittal requirements. It is not a complete list of permit or code requirements and should not be used as a substitute for applicable laws and regulations. It is the responsibility of the owner/design professional to review the submittal for completeness. Only complete applications will be accepted by the city for review.

A Fire Connection Permit is required for new construction installation of all underground water supplies for fire protection purposes.

Note: The State of Washington law for licensed contractors (RCW 18.160) requires that a licensed Fire Sprinkler System Contractor be listed on the face of the permit prior to permit issuance. Plans for Fire Sprinkler Systems must be designed and stamped by a Certified Fire Sprinkler Designer.

FIRE CONNECTION PERMIT SUBMITTAL REQUIREMENTS:

GENERAL NOTES: include on the working drawings:

- Property address
- Name, address, phone number of the property owner and contact person for the project
- Clearly indicate extent of the project and location(s) of the Fire Connections
- Describe building occupancy and type

WORKING DRAWINGS:

- Building footprint
- All valves, vault location, post indicating valve
- Fire Department Connection (FDC) and piping to include size and material
- All thrust blocking and pipe restraints
- Piping materials, size, depth, etc.
- A registered professional engineer or a level III Fire Sprinkler Contractor must design and stamp the plans.

CALCULATIONS AND SPECIFICATIONS:

Provide Hydraulic Calculations.

INSTALLATION REQUIREMENTS:

Fire sprinkler underground piping is defined as "that section of underground pipe dedicated exclusively to the fire sprinkler system that runs from the sprinkler riser to the last valve, that if closed, shuts off only the fire sprinkler system." There are two (2) types of installations permitted:

1. The first type, listed under the following Section 1, may be used in most cases when the backflow protection, vault and equipment are installed at the property line.
2. The second type, listed under the following Section 2, may be used when the back flow protection and equipment can be located in the building within 10 feet of the property line.

Note: All materials shall meet or exceed City of Edmonds approved materials list.

Section 1

- Domestic and fire protection services are to be enclosed in separate vaults. For combination systems, see 2006 International Building Code Sections 903 for specific requirements.
- Point of connection to supply main shall require a minimum of one (1) isolation valve.

A three-way valve cluster may be required by the Engineering Department.

- Backflow protection equipment shall be located in a vault to grade at the property line, not to exceed 60 feet from the point of connection to supply main.
- An approved double detector check valve assembly (DCDA) as listed with the Washington State Department of Social and Health Services shall be installed. A State Certified Backflow Assembly Tester shall test the assembly upon installation and the test report must be provided to the City of Edmonds Water Department. Annual tests are required thereafter and must be submitted on a yearly basis to the City Water Department.
- Fire Department Connection shall be located in the yard no less than 50 feet from the Primary Fire Apparatus Access, Hydrant and/or at a location approved by the Fire Marshal.

Section 2

- Point of connection to supply main shall require a minimum of one isolation valve. A three-way valve cluster may be required by the Engineering Department.
- A second isolation valve or Post Indicator Valve as required by Fire Marshal shall be required at the property line.
- Backflow protection equipment shall be located within the building no farther back than 10 feet from the property line on private property.
- An approved double detector check valve assembly (DCDA) as listed with the Washington State Department of Social and Health Services shall be installed. A State Certified Backflow Assembly Tester shall test the assembly upon installation and the test report must be provided to the City of Edmonds Water Department. Annual tests are required thereafter and

must be submitted on a yearly basis to the City Water Department.

- Fire Department Connection shall be located in the yard no less than 50 feet from the Primary Fire Apparatus Access, Fire hydrant and/or at an approved location by the Fire Marshal.