



TOLEDO FIRE & RESCUE DEPARTMENT

FIRE PREVENTION BUREAU
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UNDERGROUND FIRE SERVICE MAIN INSPECTION- VISUAL

- Approved plans, manufacturers installation instructions and product information shall be available on site for use by the inspector. **OBC 107.7**
- The contractor performing the work must be licensed by the State of Ohio and registered in the City of Toledo as a Fire Protection Company Class A. **OFC 916/ TMC 1512**
- All individuals installing underground fire service piping must be licensed by the State of Ohio. **OFC 916/ TMC 1512**
 - EXCEPTION:** EXCAVATION AND EARTH MOVING EQUIPMENT OPERATORS ARE NOT REQUIRED TO BE CERTIFIED IN THIS CATEGORY PROVIDED *THE WORK THEY PERFORM MEETS THE REQUIREMENTS OF NFPA 22 AND 24 AND IS CONDUCTED UNDER THE DIRECT SUPERVISION AND ACTIVE DIRECTION OF AN INDIVIDUAL CERTIFIED IN THIS CATEGORY WHO REMAINS ON SITE WHILE WORK IS PERFORMED.*
- Work completed should match approved site utility plans. **OBC 108.5**
- Where work has stopped, open ends of pipe, valves, hydrants and fittings shall be covered or plugged to prevent foreign material from entering. **NFPA 13 & 24 10.8.4**
- Private fire service mains shall be restrained against movement at all joints and changes of direction. **City of Toledo Construction Standards Detail 45 & NFPA 13/24 10.6.2**
- In addition to restraint, underground fire service piping shall be provided with thrust blocking in accordance with the **City of Toledo Construction Standards for Underground Piping Details 47 & 48 and NFPA 10.6.1**
- All sections of piping shall be protected with a minimum of 60" of cover. **NFPA 13/24 10.4.2**
- All sections of ductile iron pipe and fittings shall be encased with 8mil polyethylene wrap in accordance with the **City of Toledo Constructions Standards. See waterline trench detail.**
- Backfill shall contain no ash, cinders, refuse, organic material or other corrosive material. **NFPA 13/24 10.9.2**
- Backfill shall contain no rocks. **NFPA13/24 10.9.3**
- Backfill shall contain no frozen earth. **NFPA 13/24 10.9.4**

A "Contractor's Material and Test Certificate for Underground Piping" must be completed for final approval of the installation. **NFPA 13/24 10.10.1 See Figure 10.10.1 for example.**