

UNION SANITARY DISTRICT NOTES

1. **MANHOLE ENTRY PROHIBITED – DUE TO POTENTIAL HAZARDS, CONTRACTORS SHALL NOT ENTER EXISTING USD MANHOLES IN THE COURSE OF THEIR WORK.**
2. **Hazard Identification** – Contractors are hereby advised that they may be exposed to hazardous conditions when installing or modifying sanitary sewer pipelines and structures. Some of these hazards include but are not limited to: exposures to hazardous gasses commonly found in sewer systems such as hydrogen sulfide, carbon dioxide, methane, oxygen deficient environments, and other flammable or explosive gasses; exposure to sewage which may contain bacteriological, chemical and other constituents harmful to humans; and exposure to areas which have limited or restricted access and egress, which may be considered permitted confined spaces by state and federal OSHA requirements.
3. **USA Notification** – At least two working days before starting an excavation, the contractor shall contact Underground Service Alert at 1-800-642-2444.
4. **Cost of Installation** – The sanitary sewer system to serve the development shall be designed and installed at the developer's expense in accordance with the 2006 Union Sanitary District (USD) Standard Specifications and Information Bulletin and all addenda.
5. **Sewer Construction Permit Required** – Prior to start of any excavation for the purpose of constructing a sanitary sewer or appurtenances at any location 2' or more outside of a building, a sewer construction permit must be obtained from USD.
6. **Notification for Inspection** – USD shall be notified at least 24 hours prior to start of any sewer construction and a request made for inspection (call 510-477-7500 ask for Customer Service). This notification applies not only to starting work, but also to restarting work which has been temporarily halted.
7. **USD Jurisdiction** – USD will inspect main and building sewer installation and bedding in all areas outside of the building footprint.
8. **Acceptable Pipe Materials** – Sanitary sewer mains and laterals shall be limited to the following pipe materials (subject to minimum cover requirements) unless otherwise specified:

Vitrified clay pipe
Cast iron pipe
Ductile iron pipe
ABS solid wall or truss pipe
PVC SDR 26 or DR 18 AWWA C 900
9. **Work By USD Forces** – All work to be done by USD shall be done at the developer's expense unless otherwise specified. The contractor shall call USD to schedule this work a minimum of 48 hours in advance (call 510-477-7500).
10. **Sewer Laterals** –
All sanitary sewer laterals shall be installed as shown on the plans.
 - a. The developer's engineer shall stake the location of all sewer laterals.
 - b. The contractor shall stamp an "S" marking in the curb at each lateral.
 - c. All building laterals shall be 4" diameter (minimum).
 - d. All building laterals shall have a minimum slope of two percent (2%) except as noted on the plans.
 - e. All sewer cleanouts shall be raised to grade and installed in an approved cleanout box, set flush with finish grade.

11. **Indemnification** – In consideration of issuance of the permit, the developer, owner or contractor seeking such permit hereby agrees to indemnify and hold harmless from claims, demands, losses, costs including attorney fees, expenses including consultant's fees, obligations, liabilities, damages, and judgments arising from any and all bodily injuries including death of an employee of the developer, owner or contractor or any other person and any and all damages to property including loss of use that results in any way from the permit issued by USD.
12. **Cut Sheets** – Cut sheets are required before the start of any sewer construction involving a pipeline over 100 feet long or a slope of less than one percent (1%). Three (3) copies of cut sheets on standard USD form must be submitted to USD. (Note: Because cut sheets will be microfilmed, faxes are not accepted). A registered civil engineer or land surveyor engaged by the developer will be responsible for setting stakes and preparing cut sheets. Cut sheets will be checked within one working day of receipt by USD, and one (1) approved copy will be furnished to the contractor for use in construction. Stakes must not be marked with cuts prior to USD approval of cut sheets.
13. **Connection to Existing Sewers** – Where connection is to be made to an existing sewer or structure, said existing sewer or structure shall be uncovered and checked for location and elevation prior to submitting cut sheets. Any discrepancy between the plans and field information shall be reported immediately to the engineer.
14. **Connection To Building Drain (Plumbing Kick-Out)** – After a permit authorizing sewer construction has been issued, building sewers may be constructed up to a point 5 feet from the building wall. Actual connection of the building sewer to the building drain will not be permitted until the main sewer or building sewer to which it connects has been accepted by USD and the subject building sewer has been satisfactorily tested in accordance with the 2006 Union Sanitary District Standard Specifications and Information Bulletin and all addenda. Do not extend building plumbing beyond building wall. Actual connection must be done by a sewer contractor with a valid sewer construction permit issued by USD.
15. **Backflow Preventers** – Install an approved backflow preventer device where the finished floor elevation is lower than 6" above the nearest upstream manhole rim elevation.
16. **Removal and abandonment** of all existing sewer, including grease interceptors shall be performed according to U.S.D. specifications.