

## WCW REQUIREMENTS FOR THE INSTALLATION OF HOUSE SEWERS

- A specific WCW Permit is required for all sewer work outside of the building
- Any work to be done within a public right of way, by lay, shall be accomplished by a licensed underground contractor
- Approved materials in WCW's jurisdictional boundaries are: Schedule 80 PVC, DR 14 C900 PVC, Coal Tar Epoxy Coated Ductile Iron Pipe (DIP), Cast Iron Pipe (CIP), Vitrified Clay Pipe (VCP), and DR17 High Density Polyethylene pipe (HDPE) (for pipe bursting applications only). **No other Plastic Pipe of any other type is allowed. NO ABS!**
- DIP or CIP shall be used where pipeline cover of less than thirty (30) inches is anticipated or planned in paved or traffic areas
- Minimum pipe size for house sewers is four (4) inches inside diameter [except for pressure pipe from house ejector pumps where 3" inside diameter pipe is required for house sewers or when e-one pumps are installed (e-one pump discharge is 1 1/4" I.D.)]. House ejector pumps shall be e-one pumps (or approved equals)
- Minimum fall (slope) is two (2) percent or one-quarter (1/4) inch drop per foot of run
- All trenches for sewers shall be protected and shored in accordance with WCW requirements and existing State Safety Laws in effect at the time the work is started or in progress. All trenches greater than five (5) feet in depth shall be shored in accordance with State Safety Laws
- **All connections in the public right of ways and driveways shall be made using Mission Clay ARC Connectors (or approved equal)**
- All pipe shall require a uniform trench bottom of 3/4" **ANGULAR DRAIN ROCK** 4" thick. Geotextile fabric (Mirafi 140N, Phillips Supac 4NP or approved equal) shall be placed over the top of the drain rock (applicable to construction on 13<sup>th</sup> Street/Rumrill Blvd., 23<sup>rd</sup> Street, Appian Way, Atlas Road, Collins Avenue, El Portal Drive, Fitzgerald Drive, Giant Highway, Giant Road, Parr Blvd., Road 20, San Pablo Avenue, San Pablo Dam Road and Valley View Road). Bell holes for pipe joints are required for all pipe installations
- No backfill or bedding shall be placed over the pipe until the pipe has been inspected by WCW's inspector or authorized WCW representative
- Inspections shall be arranged with **WCW's inspector** at least twenty-four (24) hours prior to commencing the work (Otis Ward, Desk: 510-662-3627, Cell: 510-815-4926)
- No other utility service or drainage pipelines, conduits or cables are permitted in the trench with the sewer
- All backfill up to one (1) foot above the pipe within the public streets shall be 3/4" ANGULAR DRAIN ROCK or shall be approved by the appropriate Public Agency. Geotextile fabric (Mirafi 140N, Phillips Supac 4NP or approved equal) shall be placed over the top of the drain rock (applicable to construction on 13<sup>th</sup> Street/Rumrill Blvd., 23<sup>rd</sup> Street, Appian Way, Atlas Road, Collins Avenue, El Portal Drive, Fitzgerald Drive, Giant Highway, Giant Road, Parr Blvd., Road 20, San Pablo Avenue, San Pablo Dam Road and Valley View Road)

SEWER CLEANOUT & BACKFLOW PREVENTER  
REQUIRED FOR ALL CONSTRUCTION

- All backfill over one (1) foot above the pipe within the public streets shall be one hundred (100) percent Class II A.B. or shall be approved by the appropriate Public Agency
- Unless specifically directed by WCW's inspector, the installation of building sewers shall conform to the 2006 Uniform Plumbing Code (U.P.C.), Chapters 4 and 11, or related WCW Ordinances and Standard Details
- Cleanouts shall be installed at the connection of the house sewer and the building drain, within two (2) feet of the building foundation. Additional cleanouts shall be installed at intervals not to exceed one hundred (100) feet in straight runs and for each aggregate change in direction exceeding one hundred and thirty five (135) degrees or at any single turn of ninety (90) degrees or more
- A sewer cleanout backwater overflow device & Clean Check® check valve are required for ALL construction (unless an exception is granted by WCW's inspector), including but not limited to, repairs, new connections and additions
- Side or house sewers are subject to inspection. In most cases, this task is completed by the contractor who shows video footage to WCW's inspector on-site and prior to backfill
- Iron-fused wyes or tees are required when connecting laterals to High Density Polyethylene (HDPE) sewer mains
- **NO "HAMMER TAP" CONNECTIONS WILL BE ALLOWED TO REMAIN**
- **Any existing 6" lateral shall be replaced with a 6" lateral**
- **Shared laterals are common in Rollingwood and Mac Arthur Villa.** If a lateral exits the property at the shared property line, there is likely a shared lateral. The sewer lateral under construction shall be connected directly to the main unless permission to connect back into the existing shared lateral is granted by WCW. **Be sure to reconnect the neighbor(s) to the shared lateral or directly to the main**
- Underground Service Alert (USA), (800) 642-2444, shall be called at least forty-eight (48) hours prior to any excavation

#### REQUIREMENTS FOR CONSTRUCTION ON REPAIRS TO EXISTING LATERALS

1. Normally, work should remain confined to working in the same location of the existing lateral
2. If work requires construction of a new lateral in a new location and abandoning of the existing lateral in place, **the abandoned lateral shall be removed at the main line.** Abandoned sections of lateral shall not remain attached to the main line, at the connection to the main line shall be replaced with a straight piece of pipe by the permit holder. If a manufactured "Y" was present, an ARC style coupling with a clay or cast iron plug is acceptable to seal the mainline Iron-fused wyes or tees are required when connecting laterals to High Density Polyethylene (HDPE) sewer mains
3. Only Schedule 80 PVC, DR 14 C900 PVC, Ductile Iron Pipe (DIP), Cast Iron Pipe (CIP), Vitriified Clay Pipe (VCP) or DR17 High Density Polyethylene pipe (HDPE) (for pipe bursting applications only) is acceptable for lateral repair/replacement. Generally, the same material of the existing lateral should be used for any repairs

4. DR 17 HDPE pipe may be used for pipe bursting replacement of a lateral. Pipe bursting applications will be approved on a case by case basis. Adequate slope shall be demonstrated by inspection

<p>West County Wastewater 2910 Hilltop Drive, Richmond, CA 94806</p> <p>Otis Ward, WCW Inspector BUS DESK (510) 662-3627 BUS CELL (510) 815-4926 FAX (510) 222-3277</p>	<p><b>SEWER CLEANOUT &amp; BACKFLOW PREVENTER REQUIRED FOR ALL CONSTRUCTION</b></p>
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