

Zip Code	City Name	Sanitary District	Asphalt Tee Cut		Seal Coat Tee Cut	Replacement Method	Pipe Material (Open Trench)	Pipe Material (Trenchless)	Bedding	Backfill	Ground Hardness	Remarks/ Notes
			1' Tee cut	5' Tee Cut								
94002	Belmont	Belmont	Yes	NO	20' on each side if seal coat was brand new	- Open Trench - Pipe Burst - Cured-in-Place	SDR 26	SDR 17 (all fused)	3/4" Crushed Rock	Class 1 Virgin Backfil Material	Rocky Hard	
94030	Millbrae	San Mateo County (SMC)		NO		- Open Trench	SDR 26		Sand	- Controlled Density Fill (CDF) - AB2		1. Larger streets have 6-8" concrete caps under asphalt." 2. SMC PLCO are installed ( in same materials as laterals with a Cast Iron Riser and Brass Plug), at a 45 degree from Wye and B12 square box. 3. Cleanout must have 6 foot clearance behind it. 4. Use Fabric over the Pipe Bedding. 5.Tracing Wire on all open trench Lower laterals.
94070	San Carlos	San Carlos Public Works	Yes	NO		- Open Trench - Pipe Burst	SDR 26	SDR 17 (all fused)	3/4" Crushed Rock	Class 1 Virgin Backfil Material	Rocky Hard	1. All sewers (upper and lower) are Public Works 2. PRE video required with the tech talking into the video to get a permit. Charge extra \$1100 to the customer.
94404	Foster City	Foster City Public Works		NO		- Open Trench - Pipe Burst	SDR 26	SDR 17 (all fused)	Sand	Class 1 Virgin Backfil Material	Sandy, Wet	1. CIP - only Upper Laterals and not on the streets. 2. Street Sewers are very deep. 3. May require a dewatering pump. 4. DANGER..... Use Proper Shoring and get approval from Operations Manager
94305	Stanford	Santa Clara County		NO		- Open Trench - Pipe Burst	SDR 26	SDR 17 (all fused)	3/4" Crushed Rock	Class 1 Virgin Backfil Material	Clay (Mid Hardness)	Street sewer permits are pulled at Santa Clara county Public Works.
94066	San Bruno	San Bruno Public Works	Yes	NO		- Open Trench - Pipe Burst	SDR 26	SDR 17 (all fused)	Sand	Class 1 Virgin Backfil Material	Very Hard	Streets can be backfilled with native soil if made of rock.
94028	Portola Valley	West Bay Sanitary District (WBSD)	Yes	NO	1' on each side	- Open Trench - Pipe Burst - Cured-in-Place	SDR 26	SDR 17 (all fused)	- 3/4" Crushed Rock	Less than 3 yards: Class 1 Virgin Backfil Material  More than 3 yards: Slurry (from Milpitas Slurry Only & without rocks)	- Rocky Hard - Clay and Rock	Some of the sewers in portola valley are not gravity but are forced mains. They require a particular model of grinder pump approved by WBSD. Those pumps are expensive.  Tracing Wire on all open trench Lower laterals
94027	Atherton	MOST WBSD		YES	1' on each side	- Open Trench - Pipe Burst - Cured-in-Place	C900	SDR 17 (all fused)	- 3/4" Crushed Rock	- Class 1 Virgin Backfil Material - Slurry	- Clay And Sticky - Lots of roots	If we keep the hole smaller than 3' X 3', we don't need to do a 5' Tee-cut. OR For any holes bigger than 3' X 3' in the street requires a Tee-cut.  Tracing Wire on all open trench Lower laterals
94010	Hillsborough			NO								
90411	Burlingame	Burlingame OR SMC				- Open Trench - Pipe Burst	SDR 26	SDR 17 (all fused)	Sand	Class 1 Virgin Backfil Material	Rocky Hard	Public works permits require an Erosion Control Plan.
94401 - 404	San Mateo City	San Mateo City Public Works	Yes	NO		- Open Trench - Pipe Burst			Sand		Clay	1. No Property Line Clean Out 2. Requires a \$3000 bond for Public Works works. 3. Larger streets have 6-8" concrete caps under asphalt. 4. For depths shallower than 36", use C900 pipes. 5. For depths greater 36", use SDR 26 pipes.
94061	Redwood City	Redwood City (No Lower Laterals) Some Areas allow in Fair Oaks District - Replacement Method is only Open Trench		NO		- Open Trench - Pipe Burst	SDR 26 Or C900 (depending on the inspector)		- Sand - 3/4" Crushed Rock	- Controlled Density Fill (CDF) - AB2	Clay	1. RWC requires a bond equal to the valuation of the project & to be written on the permit. 2. RWC Public Works is very difficult to work with. 3. Expect delays and so plan & bid accordingly. 4. Clean out needs to be installed at a minimum of 5' from the side walk. 5. Compaction Test & Soil Testing are sometimes required in parts of Redwood City. 6. For depths shallower than 36", use C900 pipes. 7. For depths greater 36", use SDR 26 pipes.

94062	Woodside	San Mateo County (SMC)		NO		- Open Trench	SDR 26		Sand	- Controlled Density Fill (CDF) - AB2	Clay	1. No Property Line Clean Out 2. Requires a \$3000 bond for Public Works works. 3. Larger streets have 6-8" concrete caps under asphalt." 4. SMC PLCO are installed ( in same materials as laterals with a Cast Iron Riser and Brass Plug), at a 45 degree from Wye and B12 square box. 5. Cleanout must have 6 foot clearance behind it. 6. Use Fabric over the Pipe Bedding. 7. Tracing Wire on all open trench Lower laterals.
94063	Redwood City	San Mateo County (SMC)		NO		- Open Trench	SDR 26		Sand	- Controlled Density Fill (CDF) - AB2	Clay	1. RWC requires a bond equal to the valuation of the project & to be written on the permit. 2. RWC Public Works is very difficult to work with. 3. Expect delays and so plan & bid accordingly. 4. Clean out needs to be installed at a minimum of 5' from the side walk. 5. Compaction Test & Soil Testing are sometimes required in parts of Redwood City. 6. For depths shallower than 36", use C900 pipes. 7. For depths greater 36", use SDR 26 pipes. 8. Use Fabric over the Pipe Bedding. 9. Tracing Wire on all open trench Lower laterals.
94064	Redwood City	Redwood City (No Lower Laterals)		NO		- Open Trench - Pipe Burst	SDR 26		- Sand - 3/4" Crushed Rock	- Controlled Density Fill (CDF) - AB2	Clay	1. RWC requires a bond equal to the valuation of the project & to be written on the permit. 2. RWC Public Works is very difficult to work with. 3. Expect delays and so plan & bid accordingly. 4. Clean out needs to be installed at a minimum of 5' from the side walk. 5. Compaction Test & Soil Testing are sometimes required in parts of Redwood City. 6. For depths shallower than 36", use C900 pipes. 7. For depths greater 36", use SDR 26 pipes.
94065	Redwood Shores	Redwood City (No Lower Laterals)		NO		- Open Trench - Pipe Burst	SDR 26		- Sand - 3/4" Crushed Rock	- Controlled Density Fill (CDF) - AB2	Sandy	1. RWC requires a bond equal to the valuation of the project & to be written on the permit. 2. RWC Public Works is very difficult to work with. 3. Expect delays and so plan & bid accordingly. 4. Clean out needs to be installed at a minimum of 5' from the side walk. 5. Compaction Test & Soil Testing are sometimes required in parts of Redwood City. 6. For depths shallower than 36", use C900 pipes. 7. For depths greater 36", use SDR 26 pipes.
94025 - 94028	Menlo Park	MOST WBSD		YES		- Open Trench - Pipe Burst - Cured-in-Place	C900	SDR 17 (all fused)	- 3/4" Crushed Rock	- Controlled Density Fill (CDF) - Slurry	Clay	1. Round Box and Tracing wire required. 2. All asphalt works requires slurry seal coat. 3. Must use CDF on street, sidewalks (AB2 is ok for sidewalks only). 4. West Menlo Park is San Mateo County (SMC). 5. San Mateo County require trenches to be lined with black cloth before backfill. 6. A 5 foot Tee-cut is required for all asphalt works/repairs. 7. Tracing Wire on all open trench Lower laterals
94301 - 94306	Palo Alto	(No Lower Laterals)		NO			SDR 26 (only for Clean Outs) ABS or PVC for Upper Laterals	SDR 17 (all fused)	Sand	- Controlled Density Fill (CDF) - AB2	Clay	1. If there is a landscape strip, property line clean out must be installed there and backfilled with AB2. 2. To work on sidewalk, we need to pull a "Street Work Permit" and not an "Encroachment Permit".
94022 - 94024	Los Altos			NO		- Open Trench - Pipe Burst	SDR 26	SDR 17 (all fused)	Sand	- Controlled Density Fill (CDF) - AB2	Clay	1. Check CIP on city Website 2. Los Altos will repair/replace lower laterals if a property line clean out exists. 3. Repair/ replacement in the street have very long waiting list but the customers can pay for urgent replacements/repairs.
94035, 94039 - 94041, 94043	Mountain View	(No Lower Laterals)		NO		- Cured-in-Place	SDR 26 (only for Clean Outs) ABS or PVC for Upper Laterals		Sand		Clay	1. Mountain View Public works requires a \$4M policy to work in the street. Bayshore does not replace lower laterals for Mountain View Public works. 2. Wye is Cast Iron, riser is SDR 26, Clean out body is Cast Iron.

94085 - 94089	Sunnyvale	Sunnyvale Public Works		NO		- Open Trench - Pipe Burst - Cured-in-Place	SDR26		Sand		Clay	Same as Santa Clara County. Trenchless is approved.
95014 - 15	Cupertino	Cupertino Sanitary District		NO			SDR 26 (only for Clean Outs)  ABS or PVC for Upper Laterals		Sand		Clay and Rock	Same as Santa Clara County.
95070 - 95071	Saratoga	West Valley Sanitary District (WVSD)		NO			SDR 26 (only for Clean Outs)  ABS or PVC for Upper Laterals		3'4" Crushed Rock		Clay and Rock	1. Preconstruction expansion mandatory before starting any work. 2. Sewer district dictates where the clean out will be. 3. 12inches (1 foot) is required between the Wye and the fitting for the Riser. 4. SDR 26 as materials.
95050 - 95056	Santa Clara	West Valley Sanitary District (WVSD)		NO		- Cured-in-Place			Sand		Clay	
	Los Altos Hill	Los Altos Hills Public Works		NO					Sand		Rocky	1. Sewer Lines are very deep. 2. SDR 26 is used in materials. 3. Requires a Backflow Preventer.
<b>GENERAL NOTES + LEGEND:</b>	1. Fair Oaks Sewer District - San Mateo County: No trenchless for Fair Oaks Sewer District. 2. Trenchless is better than Open Trench because of pipes and all fused together. 3. If no permit required, all uppers can be fixed with liners, if and only if the liners are approved in that city. 4. Most commonly used material is SDR 26 (except WBSD uses C900).  Legend: County Sanitation District (CSD)											