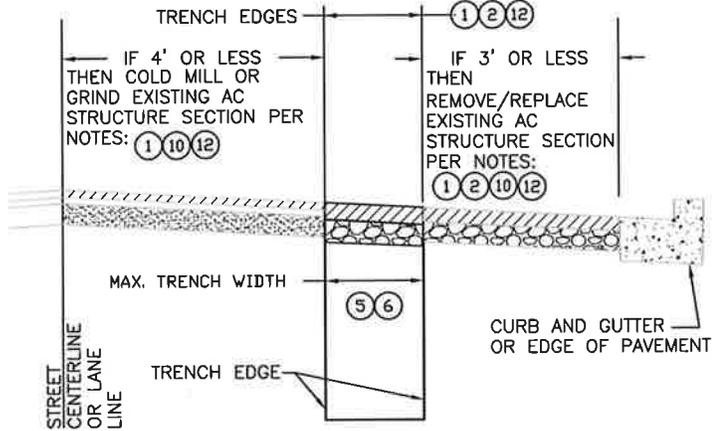


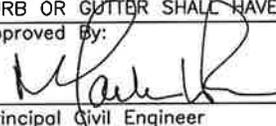
TYPICAL SECTION



PAVEMENT REPLACEMENT LIMITS

GENERAL RIGHT-OF-WAY TRENCH NOTES: OR AS DIRECTED BY THE ENGINEER

- ① ASPHALT PATCH THICKNESS SHALL BE 3 INCHES MINIMUM OR 1" GREATER THAN EXISTING AC, WHICHEVER IS GREATER. TRENCH WIDTH SHALL BE BY SAW CUT ONLY. ASPHALT PATCH MAY BE ELIMINATED OUTSIDE THE ROADWAY PRISM. COLD MILL OR GRIND EXISTING ASPHALT CONCRETE PAVEMENT TO A DEPTH OF 0.15' WITHIN THE TRENCH AREA AND TO AT LEAST 1.0' BEYOND THE EDGES OF THE TRENCH, OR REMOVE FULL DEPTH OF ASPHALT CONCRETE SECTION WITHIN THE SAME LIMITS. MORATORIUM STREETS: WHEN TRENCH CUTS HAVE BEEN AUTHORIZED FOR NEW STREETS OR FULL REHABILITATED STREETS WITHIN THE LAST 5 YEARS, GRINDING SHALL BE EXTENDED TO THE FULL TRAFFIC LANE. FOR STREETS THAT HAVE BEEN SEAL COATED WITHIN THE LAST 3 YEARS, THE TRENCH AREA SURFACE SHALL BE SEAL COATED WITH SIMILAR MATERIAL TO THE REST OF THE STREET. ANY TRENCH CUTS WITHIN THE SAME AREA LESS THAN ONE (1) YEAR OLD ARE CONSIDERED MULTIPLE CUTS. MULTIPLE CUTS WITHIN 100' OF EACH OTHER MADE BY THE SAME ENTITY SHALL BE REQUIRED TO GRIND AND OVERLAY 0.15' FOR THE FULL LANE WIDTH BETWEEN CUTS AND INCLUDING THE CUTS. EXISTING CONCRETE ROADWAYS SHALL BE REPLACED WITH CLASS 520-C-2500 CONCRETE OF EQUAL THICKNESS COLD JOINT TO COLD JOINT IN ACCORDANCE WITH GREENBOOK SECTION 201-1.1.2 AND INSTALLED IN ACCORDANCE WITH STANDARD PLAN 132-1 OF THE AMERICAN PUBLIC WORKS ASSOCIATION STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION. FOR "IN-HOUSE" WATER UTILITY INSTALLATION, MAINTENANCE, AND REPAIR SEE W5.1A.
- ② ROAD BASE: CRUSHED AGREGATE BASE (GREENBOOK SECTION 200-2.2) 4 INCHES OR MATCH EXISTING SECTION, WHICHEVER IS GREATER, 95% DENSITY, PLACED IN MAXIMUM 4 INCH LIFTS. EXISTING CONCRETE ENCOUNTERED BENEATH THE ASPHALT PAVEMENT ROADWAY SHALL BE COMPLETELY REMOVED AND REPLACED WITH CRUSHED AGGREGATE BASE (GREENBOOK SECTION 200-2.2) TO A THICKNESS EQUAL TO THAT OF THE CONCRETE REMOVED.
- ③ TRENCH BACKFILL: SELECT BACKFILL, 95% DENSITY, PLACED IN 18 INCH LIFTS. IF TRENCH IS LOCATED OUTSIDE THE ROADWAY PRISM, SELECT BACKFILL MAY BE PLACED TO FINISH GRADE AT 90% DENSITY.
- ④ PIPE ZONE: SAND (SE 30) OR GREATER, JETTED, PER SECTION 306-1.3 (GREEN BOOK), OR PLACED MECHANICALLY TO 90% DENSITY. LOCATIONS SHALL BE CLEARLY SHOWN ON THE PLANS.
- ⑤ MINIMUM TRENCH WIDTH SHALL BE THE PIPE DIAMETER PLUS 16 INCHES FOR ALL PIPE DIAMETERS. PIPE SHALL BE CENTERED IN THE TRENCH. TRENCH WIDTHS SHALL ALLOW PLACEMENT AND COMPACTION OF BACKFILL MATERIAL.
- ⑥ MAXIMUM DISTANCE BETWEEN PIPE WALL AND TRENCH WALL SHALL BE 18".
- ⑦ MINIMUM COVER IS REFERENCED TO FUTURE FINISHED FINAL GRADES UNLESS OTHERWISE SHOWN ON PROFILE DRAWINGS (36" MIN).
- ⑧ SUPPORT PIPE WITH SANDBAGS AND SPOT LOAD PIPE AS REQUIRED DURING INSTALLATION OF CLSM IN PIPE ZONE AND PIPE BEDDING AREAS.
- ⑨ DIAGONAL PAVEMENT REPLACEMENT IS NOT PERMITTED.
- ⑩ ANY TRENCH CUTS WITHIN 4' FROM THE EDGE OF PAVEMENT, LANE LINE, CURB OR GUTTER SHALL HAVE THE PAVEMENT PATCH EXTENDED TO THE EDGE OF PAVEMENT, LANE LINE, CURB OR GUTTER.
- ⑪ NO FLOATER LESS THEN 3'-0" ALLOWED.
- ⑫ PATCH MATERIAL SHALL BE LIKE IN KIND.
- ⑬ 12 INCH MINIMUM.
- ⑭ FOUNDATION FILL: THE FILL MATERIAL SHALL BE THE SAME AS THE PIPE ZONE MATERIAL AROUND THE PIPE. A MINIMUM OF 6 INCHES OF FOUNDATION FILL IS REQUIRED, 90% DENSITY, JETTED PER SECTION 306-1.3 (GREENBOOK) OR PLACED MECHANICALLY.

Approved By: 
 Principal Civil Engineer Date 4/17/13

REVISION DATE: 4/8/2013

F.D.L.	APR. 13	SAN BERNARDINO MUNICIPAL WATER DEPARTMENT	DRAWING NUMBER
F.D.L.	DEC. 11		
F.D.L.	OCT. 11		
R.L.L.	JAN. 11		
REVISION DATE		TRENCH, BACKFILL AND PAVEMENT REPLACEMENT DETAIL	SBMWD
APPROVED			
SCALE: NONE		MATTHEW H. LITCHFIELD, P.E. RCE 58079	W5.1