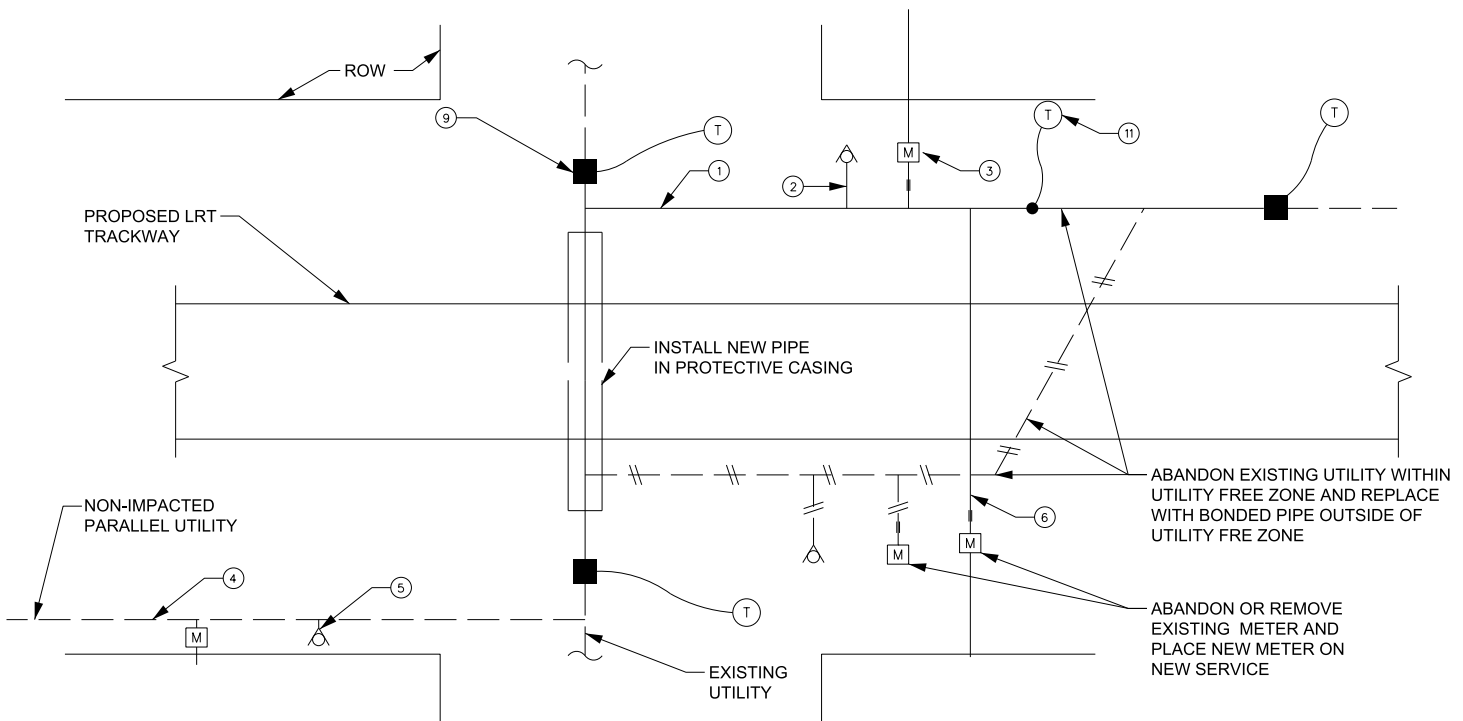


LEGEND					
	ISOLATING FITTING		EXISTING UTILITY		NEW UTILITY
	METALLIC WATER SERVICE		HYDRANT		ABANDON
	TEST STATION		CONNECTION TO EXISTING		



NOTE

1. BOND ALL JOINTS OF NEW PARALLEL METALLIC UTILITY FACILITIES.
2. JOINTS ON NEW FIRE HYDRANT LATERALS CONNECTED TO WATER MAIN WITH BONDED JOINTS SHALL BE BONDED.
3. METALLIC WATER SERVICES ON BONDED JOINT MAIN SHALL BE BONDED AND HAVE INSULATED COUPLING/UNION AT CONNECTION TO EXISTING SERVICE.
4. RETROFIT OF JOINT BONDING NOT REQUIRED ON EXISTING WATER MAIN PARALLELING PROPOSED LRT OUTSIDE OF UTILITY FREE ZONE.
5. BOTH NEW AND EXISTING SERVICES AND HYDRANT LATERALS CONNECTED TO UNBONDED WATER MAIN DO NOT REQUIRE BONDING.
6. FOR METALLIC PIPE, INSULATING FITTINGS ARE REQUIRED AT THE MAIN AND AT THE SERVICE CONNECTION.
7. USE NON-METALLIC MATERIALS FOR CASING AND UTILITY RE-ARRANGEMENT IF PRACTICAL.
8. BOND ALL MECHANICAL JOINTS OF METALLIC UTILITY REARRANGEMENT.
9. INSTALL INSULATING JOINTS TO ELECTRICALLY ISOLATE NEW PIPE FROM EXISTING PIPE.
10. WHERE POSSIBLE, NEW NON-METALLIC (PE/PVC) SERVICES SHALL BE USED IN PLACE OF METALLIC/COPPER.
11. INSTALL TEST STATIONS APPROX. 150m SPACING ON PIPE PARALLEL TO LRT.
12. SEE DRAWING NUMBER 3-1-1 FOR PIPING MATERIAL SELECTION.
13. BONDING AND REPLACEMENT SHALL EXTEND 30m AT EACH INTERSECTION BEYOND LIMIT OF RAIL.



**PUBLIC WORKS
STANDARD DRAWING**

REV. DATE: FEBRUARY 2015

APPROVED BY

WT

STD. DWG. NUMBER

3-1-4

DRAWN BY

AECOM

SCALE

N.T.S.

**TYPICAL ARRANGEMENT FOR
PIPES PARALLEL TO LRT**