



| PREFERRED PIPE MATERIAL FOR RAIL CROSSINGS BASED ON EXISTING PIPE BEYOND RAIL CORRIDOR | | |
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| EXISTING PIPE MATERIAL | PREFERRED MATERIAL | |
| | < 400mm Ø | > 400mm Ø |
| PRESTRESSED CONCRETE CYLINDER PIPE (PCCP) | BONDED PCCP | BONDED PCCP |
| POLYVINYL CHLORIDE (PVC) | PVC | PVC |
| DUCTILE IRON (DI) | PVC | DI |
| CAST IRON (CI) | PVC | DI |

NOTE

1. THE UTILITY FREE ZONE (UFZ) DIMENSIONS ARE DETERMINED BY THE TRANSIT SYSTEM DESIGNERS AND ARE SUBJECT TO CHANGE BASED ON FINAL LRT STANDARD REQUIREMENTS.
2. THE LOWERING DETAIL SHOWN IS FOR EXAMPLE PURPOSED ONLY. LOWERING AND CROSSING DESIGN DETAILS ARE DETERMINED ON A CASE BY CASE BASIS.
3. TEST STATIONS SHALL BE PLACED OUTSIDE OF THE UTILITY FREE ZONE AND TRANSIT SYSTEM ENVELOPE. THE TEST STATIONS SHOULD BE PLACED IN A LOCATION THAT DOES NOT REQUIRE TRAFFIC CONTROL FOR TESTING ACCESS AND WHERE THEY DO NOT INTERFERE WITH OR PRESENT A HAZARD TO PEDESTRIAN OR VEHICULAR TRAFFIC.
4. BOND ALL METTALIC PIPE 30m BEYOND RAIL (MIN.) OR TO ROW LIMITS.
5. WHERE PIPE CANNOT BE LOWERED OUTSIDE OF THE UFZ, REHABILITATE WITH STRUCTURAL LINER (CURED IN PLACE PIPE, OR GLASS REINFORCED PLASTIC), OR REPLACE AND ENCASE IN EXISTING LOCATION.

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| | PUBLIC WORKS STANDARD DRAWING | | REV. DATE: FEBRUARY 2015 | |
| | TYPICAL GRAVITY PIPE LOWERING DETAIL | | APPROVED BY | DRAWN BY |
| WT | | | AECOM | |
| | | | STD. DWG. NUMBER | SCALE |
| | | | 3-1-2 | N.T.S. |