

RTD ENGINEERING DIVISION REVIEW of UTILITY OWNER SUBMITTED REQUEST TO CROSS RTD ROW/FACILITIES
USE THIS REQUIREMENT CHECK-OFF LIST AS GUIDELINES - This list is used by RTD ENGINEERING STAFF for review of your submittal
Important - Crossing RTD ROW/Facilities is a process that begins and ends with RTD's Real Property Group, but if you have Engineering Questions, contact RTD Engineering.

Utility Owner (UO) _____ Utility-Type _____ Corridor/Street Location _____ / _____ UA # _____

| ITEM # | REQUIREMENTS NEEDED | HAVE YOU INCLUDED THESE ITEMS? |
|--------|--|--------------------------------|
| 1 | RTD Railroad Utility Agreement - Application Data Sheet (ADS) Completely Filled Out | |
| 2 | Begin Plans with a Vacinity Map (Aerial showing approximate location of Utility across RTD tracks/facility) | |
| 3 | Plan/Profile with PE Stamp/Signature as FOR CONSTRUCTION | |
| 4 | Plan/Profile - Clear indication of Location of crossing/parallel wrt nearest major cross streets (Aerial photo &/or Topo - both screened back so Utility line-work shows clearly) | |
| 5 | Plan/Profile - RTD tracks and RTD and Public Rights-of-Way (ROW) clearly shown with distances to Utility | |
| 6 | Plan/Profile - Both views show RTD Tracks (Using proper Track Linework and Label as 'RTD (Corridor) Tracks/ROW') | |
| 7 | Plan/Profile - Both views shows and labels RTD UG Elec/Comm Ducts (size and number of conduits and depth should be accurate if as-built information is available) | |
| 8 | Plan/Profile - Both views show crossing utility and pipe and casing size and material | |
| 9 | Plan/Profile - Bore Pits clearly shown on Plan/Profile with distances from edge of Bore pits to nearest RTD rail and ROW | |
| 10 | Plan/Profile - Bore Pit Shoring is shown (if Bore Pits fall within the Zone of Influence) | |
| 11 | Plan/Profile - If Encased - Length and Extent of Casing and distance from edge of casing to RTD Dynamic Envelope is indicated and is sufficient. | |
| 12 | Plan/Profile - If RTD Variance was Approved - Variance ID # is shown with a note indicating what the Variance is | |
| 13 | Plan - North Arrow and Scale Bar and Minimum Text Size for all notes (leadered and listed) is 0.125 | |
| 14 | Plan - UNCC Color Codes and proper Linestyles used to show utilities | |
| 15 | Plan - Match Lines do not break up RTD tracks or ROW | |
| 16 | Profile - Existing ground accurately represent Field Conditions and Proposed Utility alignment accurately represents bore profile (No Generic Profiles) | |
| 17 | Tracer Wire &/or Marker Poles Included in Design. | |
| 18 | If Pressurized - Calculations with PE Stamp/Signature meeting AREMA | |
| 19 | If Pressurized - Correct Pipe Thickness (per AREMA) | |
| 20 | If Pressurized and Unencased - Weld Testing & Pull Force Monitoring Specs | |
| 21 | If Pressurized and Unencased - Inspection and Maintenance Plan | |
| 22 | If Metallic - Cathodic Protection / Pipe Coating shown | |
| 23 | If Bore Pits are within Zone of Influence - Shoring Desing Submitted to RTD for review | |
| 24 | Method of Insallation / Bore Spec | |
| 25 | Field Check - Depth of RTD Underground Comm/Elec Ducts have been field & as-built verified and Horizontal and Vertical Depth of proposed UO Utility is OK (UO must coordinate with RTD Engineering & MOW) | |
| 26 | Depending on size and depth of bore - Geotechnical Report may be required showing install will not impact surface and subsurface stability | |
| 27 | RTD Notes to Contractor on Plan/Profile (or cross-referenced to a general notes sheet) | |
| 28 | If Utility Owner (UO) design violates RTD criteria - RTD Variance has been submitted by UO and approved by RTD (if Variance is Rejected by RTD, UO submits new design reflecting necessary changes) | |
| 29 | If Utility Owner (UO) plans to REMOVE a crossing utility - RTD Agreement to Vacate Form (Completely Filled Out) | |

For RTD Utility Application Forms and RTD Contact Information, go to ww-rtd-denver.com