

# APPENDIX 3F

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## Sample Notes for Sewer and Drainage Plans Mainline Conveyance

# I. INTRODUCTION

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All notes in these sets are illustrative and require review and revision by the Engineer for each project and specific project conditions. **Yellow highlights indicate a note to the designer.**

## 2. DRAINAGE AND SEWER MAINLINE CONVEYANCE NOTES

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For drainage and sewer notes unless otherwise noted.

1. SEWER MAINLINE PIPE MUST BE VITRIFIED CLAY PIPE (VCP) PER SPECIFICATION 9-05.4.
2. MAINLINE PIPE AND CULVERT PIPE MUST BE APPROVED BY SEATTLE PUBLIC UTILITIES (SPU) AND AS SHOWN ON THE PROFILE.
  - 2.1. DUCTILE IRON PIPE (DIP) MUST BE PER COS STD SPEC 9-05.3. FITTINGS MUST BE CEMENT MORTAR LINED DUCTILE IRON. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL.
3. BEDDING MUST BE CLASS B FOR ALL PIPE, EXCEPT DIP THAT IS LESS THAN 30-INCH ID, WHICH MAY BE CLASS D. SEE COS STD PLAN 285 AND COS STD SPEC 7-17.3(1). BEDDING MATERIAL MUST BE:
  - 3.1. MINERAL AGGREGATE TYPE 9 FOR REINFORCED CONCRETE PIPE (RCP).
  - 3.2. SELECT NATIVE OR MINERAL AGGREGATE TYPE 22 FOR DIP.
4. FOR ALL TEES, THE CENTER POINT OF THE TEE MUST BE INSTALLED NO LOWER THAN 30° AND NOT HIGHER THAN 45° ABOVE THE SPRINGLINE OF THE MAINLINE.
5. TEES ON NEW PIPE LESS THAN 24" IN DIAMETER MUST BE PREFABRICATED. ALL NEW CONNECTIONS TO EXISTING MAINLINES OR STRUCTURES, OR CONNECTIONS TO NEW MAINLINES WITHOUT PREFABRICATED TEES, MUST BE PER SPU CORE TAP PROCEDURES.
6. TEES SHALL BE PREFABRICATED AND WHEN CONNECTING TO A DISSIMILAR PIPE MATERIAL, MUST BE NO BELL TEES AND CONNECTED USING A SHIELDED FLEXIBLE REPAIR COUPLING PER COS STD SPEC 7-17.3(2)E AND 9-05.18.
7. PIPE INVERT ELEVATIONS AT MAINTENANCE HOLES, INLETS, CATCH BASINS, AND JUNCTION BOXES ARE MEASURED AT CENTER OF STRUCTURE. LENGTHS OF PIPE ARE MEASURED TO THE CENTER OF THE STRUCTURE.
8. ALL PIPELINES AND APPURTENANCES MUST BE CLEANED AND TESTED AFTER BACKFILLING PER COS STD SPEC 7-17.3(3). DEFLECTION TESTING OF FLEXIBLE PIPE MUST BE NO LESS THAN 30 DAYS AFTER BACKFILLING AND PRIOR TO PAVING PER COS STD SPEC 7-17.3(3)F. TELEVISION INSPECTION MUST BE PER COS STD SPEC 7-17.3(3)G.
9. PIPE 12" DIAMETER AND LARGER TO BE ABANDONED MUST BE FILLED WITH A PUMPABLE, FLOWABLE CEMENT SLURRY. SEE COS STD SPEC 2-02.3(5).

### **3. KING COUNTY WASTEWATER TREATMENT DIVISION SEWER NOTES**

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The following sample notes were taken from an SDOT project impacting a King County sewer and may be useful. Contact the current King County Local Public Agency Coordinator for your project.

1. CONTACT KING COUNTY AT PLANSREVIEW@KINGCOUNTY.GOV FIVE (5) WORKING DAYS IN ADVANCE OF THE PRE-CONSTRUCTION CONFERENCE FOR THIS PROJECT.
2. CONTACT KING COUNTY ATPLANSREVIEW@KINGCOUNTY.GOV THREE (3) WORKING DAYS IN ADVANCE OF CONSTRUCTION ACTIVITY WITHIN 50 FEET OF THE KING COUNTY FACILITIES.
3. A KING COUNTY REPRESENTATIVE SHALL BE ON SITE DURING EXCAVATION AND MODIFICATION OF THE KC WTD FACILITIES.
4. NO DEBRIS SHALL BE ALLOWED TO ENTER THE KING COUNTY SEWER SYSTEM DURING CONSTRUCTION.
5. ALL WORK ON THE KING COUNTY PIPELINES AND FACILITIES SHALL NOT BE BACKFILLED UNTIL THE WORK HAS BEEN INSPECTED AND APPROVED BY A KING COUNTY REPRESENTATIVE.