

APPENDIX 3E

Sample Notes for Drainage Plans About Catch Basins and Inlets

I. INTRODUCTION

All notes in these sets are illustrative and require review and revision by the Engineer for each project and specific project conditions. Some of these notes are contradictory AND MAY BE SUITABLE FOR ONE SITE BUT NOT OTHERS. Yellow highlights indicate a note to the designer.

2. DRAINAGE CATCH BASINS AND INLETS NOTES

For drainage catch basins and inlets notes unless otherwise noted.

1. CATCH BASIN CONNECTIONS AND INLET CONNECTIONS MUST BE 8" DIAMETER. PIPE MUST BE DOUBLE CEMENT MORTAR LINED DUCTILE IRON CLASS 50 (MIN) PER SPECIFICATION 9-05.3. FITTINGS MUST BE CEMENT MORTAR LINED DUCTILE IRON. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL. Note to the engineer: Consider substitution with PVC C900 with Class B bedding of mineral aggregate type 22 when there are corrosion concerns. See note 3.
2. INLET CONNECTIONS MUST BE 8" DIAMETER. PIPE MUST BE DOUBLE CEMENT MORTAR LINED DUCTILE IRON CLASS 52 (MIN) PER SPECIFICATION 9-05.3. JOINTS MUST BE RUBBER GASKET, PUSH-ON OR MECHANICAL. Note to the engineer: Consider substitution with Di class 52 with Class B bedding of mineral aggregate type 6 or 7 when there are corrosion concerns.
3. CATCH BASIN CONNECTIONS MUST BE 8" DIAMETER. PIPE MUST BE PVC C900. Note to designer: Refer to spec, an amendment to standard specifications to include C900 in 9-05 is in progress.
4. BEDDING MUST BE CLASS D OR WITH SELECT NATIVE MATERIAL IF APPROVED BY THE ENGINEER.
5. BEDDING FOR DUCTILE IRON PIPE MUST BE CLASS B, MINERAL AGGREGATE TYPE 6 OR 7.
6. BEDDING FOR PVC PIPE MUST BE CLASS B, MINERAL AGGREGATE TYPE 22.
7. CATCH BASIN CONNECTIONS MUST BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 100% PER STANDARD PLAN NO. 261 AND SPECIFICATION 7-08.3(4).
8. INLET CONNECTIONS MUST BE PLACED AT A MINIMUM SLOPE OF 5% AND A MAXIMUM SLOPE OF 50% PER SPECIFICATION 7-08.3(5).
9. CATCH BASINS AND INLETS MUST BE LOCATED PER STANDARD PLAN NO. 260A AND 260B. REQUIREMENTS INCLUDE STAKING TO FACE OF CURB AT CENTER OF GRATE AND DRAINAGE TRANSITION ZONE.
10. CONTRACTORS ARE NOT ALLOWED TO CORE INTO EXISTING MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL AND OBSERVATION BY SPU. SEE SPECIFICATION 7-17.3(2)C3 AND THE SPU CORE TAP PROCEDURE FOR STORM AND SEWER MAINS. Note to designer: The distinction is new connections to existing mainlines will be by SPU crews and new

Chapter 3 Design for Construction
Appendix 3E Sample Notes for Drainage Plans
about Catch Basins and Inlets

tees and lateral on new pipe will be by the contractor. A project decision to allow the contractor to tap existing pipe should include a check of bid items and spec language.