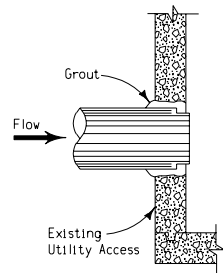
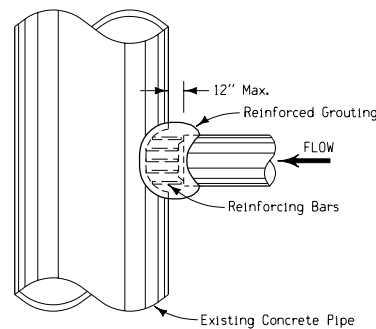


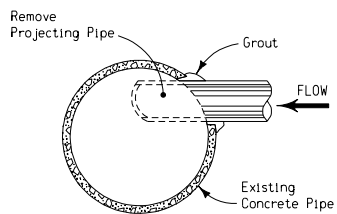
WYE CONNECTION



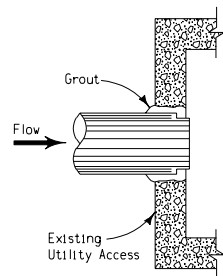
ELEVATION VIEW
CONNECTION TO
RECTANGULAR UTILITY ACCESS



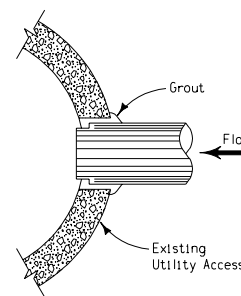
TEE CONNECTION



SECTION A-A



PLAN VIEW
CONNECTION TO
RECTANGULAR UTILITY ACCESS



PLAN VIEW
CONNECTION TO
CIRCULAR UTILITY ACCESS

GENERAL NOTES:


Connections indicated are typical only and are not intended to depict any specific installations. Refer to detail project plans for locations and requirement of installations.

Connections to an existing structure shall be made by making a hole slightly larger than the outside diameter of the storm sewer pipe, inserting the pipe into the hole and satisfactorily grouting the connection with non-shrink mortar grout. When so directed by the Engineer, any portion of pipe projecting unnecessarily into the existing structure shall be removed to make a proper flush fitting.

Where necessary to make a connection without inserting the pipe into the existing structure, a concrete collar of not more than 12 inches in length may be formed with the inside smoothly shaped to the diameter of the pipe with the thickness and reinforcing in the collar approximately double that of the storm sewer pipe being installed.

In the event of any damage to existing structure in the process of making a connection, such damage shall be satisfactorily repaired or replaced at the Contractor's expense.

The work of making connections between existing drainage structures, such as a utility access, intake or storm sewer line, and a proposed storm sewer shall not be paid for separately but shall be incidental to the work of constructing storm sewer and considered included with the price bid for storm sewer.

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|  Iowa Department of Transportation Project Development Division | |
| STANDARD ROAD PLAN | RA-56 |
| REVISION: Replaces Standard Road Plan RA-38. | REVISION NO. New |
| APPROVED BY: <i>John C. Christ</i> 11-05-99 DESIGN METHODS ENGINEER | REVISION DATE 02-11-00 |
| SEWER CONNECTION TO EXISTING STRUCTURES | |