

# ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

Director,  
Preliminary

RECEIVED
FACILITIES DESIGN SUBDIVISION
Plan Review Bureau
NOV 27 1979

SUBJECT: CONCRETE COLLARS

Subject Code: 7.27-1-603

PRELIMINARY PLAN REVIEW  
BUREAU

NOV 27 1979

**SUPERSEDED BY EI 81-024**  
**EFFECTIVE**  
**4/28/81**

Distribution:

Main Office     Regions     Special

Code: EI 79-51

Date: 11/21/79

APPROVED:

*Robert A. Edwards*  
Deputy Chief Engineer (Facilities Design Subdivision)

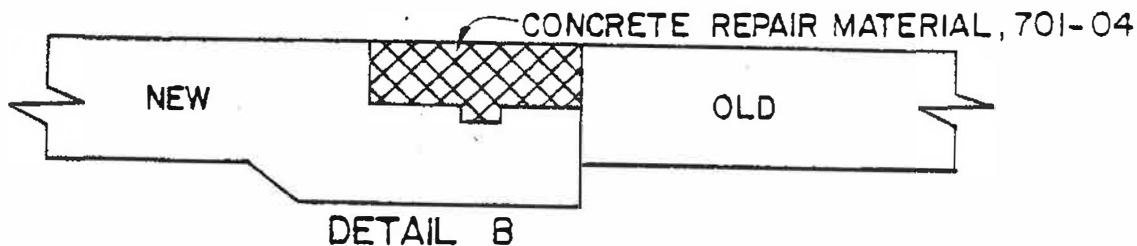
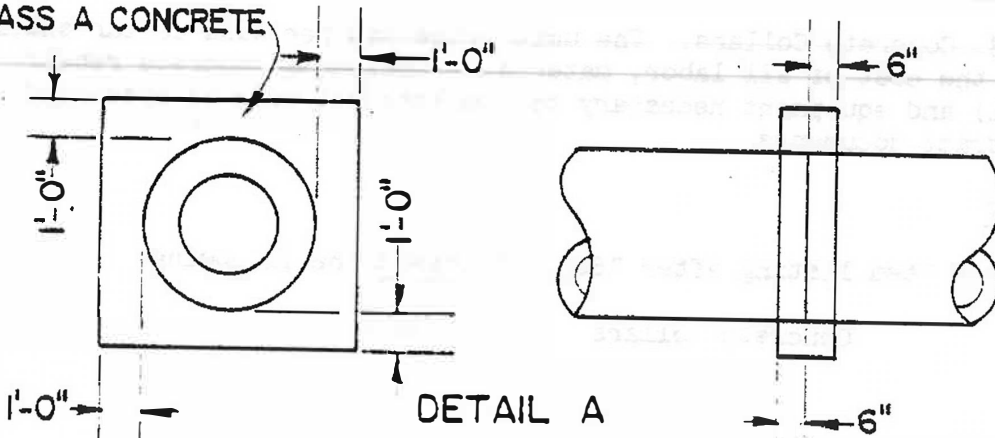
Supersedes:

The Construction Subdivision has recently encountered a problem involving the extension of concrete pipe which was installed prior to 1960. The concrete pipe being manufactured today requires an elastomeric gasket. Concrete pipe being produced today will not accept the spigot end of concrete pipe manufactured prior to the elastomeric gasket requirement.

Since the present specifications do not provide for the old-new concrete pipe connection, we are forwarding the attached revised specification for your immediate use. This revised specification will be incorporated, by the Final Plan Review Bureau, in all future projects containing Item 603.77, Concrete Collars, starting with the letting of February 28, 1980. If you desire to include Item 603.77 before this date please contact the Final Plan Review Bureau.

The most common type of connector being used today is a concrete collar that extends one foot beyond the diameters of the pipe and six inches onto the old pipe and six inches onto the new pipe. No reinforcing steel is required and the depression formed by the new bell and old spigot is filled with concrete repair material. (See Detail A & B). Even though there are alternate methods of connecting pipe, such as precast sleeves, we recommend detailing the following drawing on all appropriate plans and using it as a standard connection.

CLASS A CONCRETE



CONCRETE COLLARS

Make the following changes to the Standard Specifications of January 3, 1978:

Page 6-1

Under § 603-2, MATERIALS, in the list of materials insert the following:

Concrete Repair Material 701-04

Page 6-2

Under § 603-3.02,C. Bell and Spigot Type Pipe, add the following as the second paragraph:

Where the spigot end of existing pipe does not fit the bell end of new pipe, the Contractor shall construct a concrete collar as shown on the Contract Plans. The bottom half of the space on the inside of the pipe between the existing spigot and the new bell shall be filled with concrete repair material meeting the requirements of § 701-04. Alternate designs may be submitted to the Deputy Chief Engineer, Technical Services for approval.

Page 6-5

Add the following subsection after § 603-4.04, Relaying Pipe:

603-4.05 Concrete Collars. The quantity to be paid for under this item shall be the number of concrete collars incorporated into the work in accordance with the plans and specifications.

Also, add the following subsection after § 603-5.02, End Sections:

603-5.03 Concrete Collars. The unit price bid per each collar shall include the cost of all labor, materials (including concrete repair material) and equipment necessary to complete the work as specified in the contract documents.

Page 6-7

In the pay item listing after "603.75" insert the following:

603.77	Concrete Collars	Each
--------	------------------	------