

ITEM 15603.77XX M - CONCRETE COLLARS FOR PIPE EXTENSIONS

Description : This work shall consist of constructing concrete pipe collars for extending pipe from headwalls and other structures as shown on the plans and as indicated by the Engineer. The drilling, positioning and grouting of the dowel bars shall be as indicated herein.

Materials : Materials for constructing pipe collars shall meet the following requirements:

Portland Cement Concrete	Section 501, Structural Concrete Class A
Dowels	Section 556, Reinforcing Steel for Concrete Structures except Grade 40 may be used
Concrete Repair Material	701-04
Grout	701-05, Concrete Grouting Material

Construction Details. Holes shall be drilled into the existing headwall, structure, etc. with equipment and in a manner approved by the Engineer. The Contractor's drilling method and equipment shall not damage the existing structure. The holes are to be surface dry and clean of all material for the full depth before placing the grout. The grouting material shall be mixed and placed in accordance with the manufacturer's instructions. The holes shall be filled with enough grout so that when the dowels are inserted full depth the grout will completely fill the void and ooze out allowing it to be struck off flush with the existing surface. The dowels shall be worked back and forth to insure complete coverage with the grout and to drive out entrapped air. The final horizontal and concentric position of the dowel may be set with wedges or concrete chips.

Concrete shall be placed in accordance with the requirements of Section 555, Structural Concrete.

When extending concrete pipe from older installations with new pipe requiring elastomeric gaskets, a smooth flow line surface must be obtained. All annular depressions and gaps in the bottom half of the periphery are to be filled with concrete repair material as indicated in the plans.

The butting joint area shall be so finished that the interior pipe surface shall be smooth and even for all joints.

Method of Measurement. The quantity to be measured shall be the number of concrete collars incorporated into the work in accordance with the plans and specifications.

Basis of Payment. The unit price bid shall include the cost of furnishing all labor, materials and equipment to satisfactorily complete the work.

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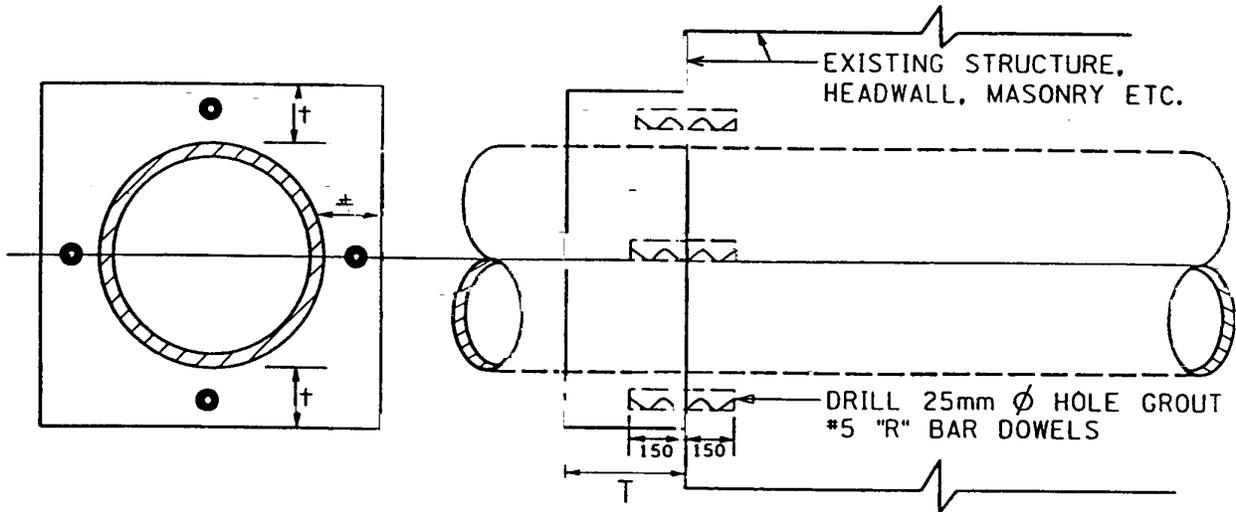
Payment will be made under:

<u>Item No</u>	<u>Item</u>	<u>Pay Unit</u>
15603.7721 M	Concrete Collars for Pipe Extensions (Inside diameter or span through 482.6mm)	Each

<u>Item No</u>	<u>Item</u>	<u>Pay Unit</u>
15603.7722 M	Concrete Collars for Pipe Extensions (Inside diameter or span 508. mm through 736.6 mm)	Each
15603.7723 M	Concrete Collars for Pipe Extensions (Inside diameter or span 762. mm through 990.6 mm)	Each
15603.7724 M	Concrete Collars for Pipe Extensions (Inside diameter or span 1016. mm through 1244.6 mm)	Each
15603.7725 M	Concrete Collars for Pipe Extensions (Inside diameter or span 1270. mm through 1498.6 mm)	Each
15603.7726 M	Concrete Collars for Pipe Extensions (Inside diameter or span 1524. mm through 1752.6 mm)	Each
15603.7727 M	Concrete Collars for Pipe Extensions (Inside diameter or span 1778. mm through 2006.6 mm)	Each
15603.7728 M	Concrete Collars for Pipe Extensions (Inside diameter or span 2032. mm through 2260.6 mm)	Each

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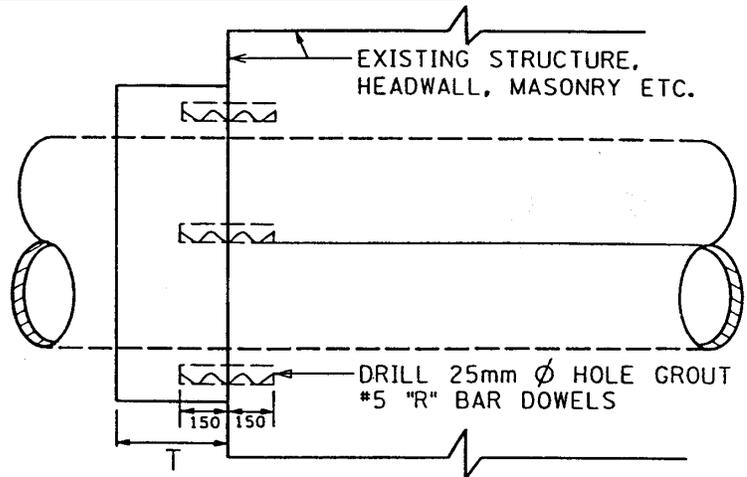
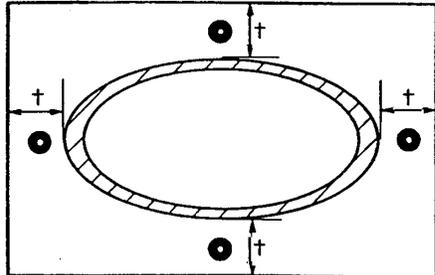


INSIDE DIA. MM	"t" MM	"T" MM	NO. DOWELS REQUIRED *
THRU 482.6	228.6	304.8	4
508.0 - 736.6			4
762.0 - 990.6			6
1016.0 - 1244.6			8
1270.0 - 1498.6	304.8	457.2	8
1524.0 - 1752.6			8
1778.0 - 2006.6			10
2032.0 - 2260.6			12

* SPACE EVENLY AROUND PIPE AS INDICATED.

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INSIDE DIA. MM	"t" MM	"T" MM	NO. DOWELS REQUIRED *
THRU 482.6	228.6	304.8	4
508.0 - 736.6	↓	↓	4
762.0 - 990.6	↓	↓	6
1016.0 - 1244.6	↓	↓	8
1270.0 - 1498.6	304.8	457.2	8
1524.0 - 1752.6	↓	↓	8
1778.0 - 2006.6	↓	↓	10
2032.0 - 2260.6	↓	↓	12

SPACE EVENLY AROUND PIPE AS INDICATED.

