

**(DR-7) CITY OF SACO
CORE AND SEAL CONNECTION TO
EXISTING STORM DRAIN MANHOLE**

N.T.S.

Short Form Specifications:

Material:	PIPE TO MANHOLE CONNECTOR.	QA/QC:	INSPECT TO ENSURE WATERTIGHT CONNECTION.
Submittal:	MANUFACTURER'S DATA.	Completion:	N/A
Installation:	PER MANUFACTURER'S SPECIFICATIONS; SECTION 02720 – STORM SEWER SYSTEMS OF STANDARD SPECIFICATIONS.		

Design Checklist:

Use: **USE CONNECTIONS AT ALL MANHOLE AND CATCH BASIN PIPE CONNECTIONS.**

Computations: **N/A**

Water Quality Provisions:

PREVENTS INFILTRATION/EXFILTRATION FROM STRUCTURE TO GROUNDWATER.

Cross Reference:

Zoning/Site Plan Review: **ARTICLE 8 – "GOOD NEIGHBOR" PERFORMANCE STANDARDS, PARAGRAPH 805 – STORMWATER RUNOFF**

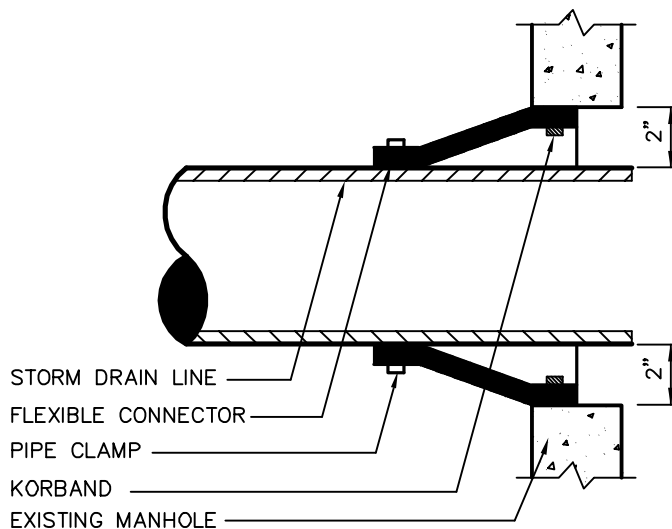
Subdivision Review: **ARTICLE 10, PARAGRAPH 10.12 – STORMWATER MANAGEMENT; ARTICLE 11, PARAGRAPH 11.14 – STORM AND SURFACE DRAINAGE.**

ASCE MREP No. 77: **CHAPTER 13 – MATERIALS OF CONSTRUCTION AND MAINTENANCE.**

MEDEP STORMWATER BMP: **N/A**

NOTES:

1. A FLEXIBLE PIPE TO MANHOLE CONNECTOR SHALL BE EMPLOYED IN THE CONNECTION OF ALL PIPE TO MANHOLE JUNCTIONS.
2. THE CONNECTOR SHALL BE KOR-N-SEAL AS MANUFACTURED BY NPC SYSTEMS, INC., OF MILFORD, NH OR EQUAL.
3. THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO MANHOLE. NO ADHESIVES OR LUBRICANTS SHALL BE EMPLOYED IN THE INSTALLATION OF THE CONNECTOR TO THE MANHOLE. THE RUBBER FOR THE CONNECTOR SHALL COMPLY TO ASTM C443 AND ASTM C923 AND CONSIST OF EPDM AND ELASTOMERS KNOWN TO BE RESISTANT TO OZONE, WEATHER ELEMENTS, CHEMICALS, INCLUDING ACIDS, ALKALIS, ANIMAL AND VEGETABLE FATS, OILS AND PETROLEUM PRODUCTS FROM SPILLS.
4. ALL STAINLESS STEEL ELEMENTS OF THE CONNECTOR SHALL BE TOTALLY NON-MAGNETIC SERIES 304 STAINLESS, EXCLUDING THE WORM SCREW USED FOR TIGHTENING THE STEEL BAND AROUND THE PIPE WHICH SHALL BE SERIES 305 STAINLESS. THE WORM SCREW USED FOR TIGHTENING THE STEEL BAND SHALL BE TORQUED BY A BREAK-AWAY TORQUE WRENCH AVAILABLE FROM THE PRECAST MANHOLE SUPPLIER, AND SET AT 60/70 in/lbs.
5. THE CONNECTOR SHALL BE INSTALLED IN THE MANHOLE WALL BY ACTIVATING THE EXPANDING MECHANISM IN STRICT ACCORDANCE WITH THE RECOMMENDATION OF THE CONNECTOR MANUFACTURER.
6. THE CONNECTOR SHALL BE OF A SIZE SPECIFICALLY DESIGNED FOR THE PIPE MATERIAL AND SIZE BEING UTILIZED ON THE PROJECT.
7. ALL CONNECTORS WHICH ARE CAPPED AWAITING PIPE INSTALLATION AT A LATER DATE MUST BE RESTRAINED.



CONTRACTOR SHALL REMOVE SECTION OF MANHOLE EQUAL TO PIPE O.D. + 4" USING CONCRETE CORING METHOD SHALL BE APPROVED BY ENGINEER

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