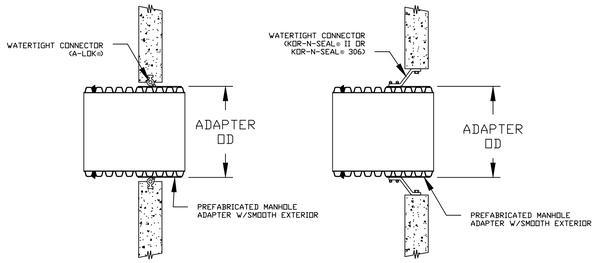


TYPE 2A: A-LOK GASKET
(PRE-CAST)
W/HDPE PREFABRICATED MANHOLE
ADAPTER W/ SMOOTH EXTERIOR

TYPE 2B: KOR-N-SEAL (CORED
HOLE OR PRE-CAST) W/ FIELD
INSTALLED MANHOLE BOOT W/
HDPE PREFABRICATED MANHOLE
ADAPTER W/ SMOOTH EXTERIOR

SEE STANDARD DETAIL STD-201 AND TECHNICAL NOTE: 5.04 HDPE CONNECTIONS TO MANHOLES AND STRUCTURES FOR INSTALLATION RECOMMENDATIONS.

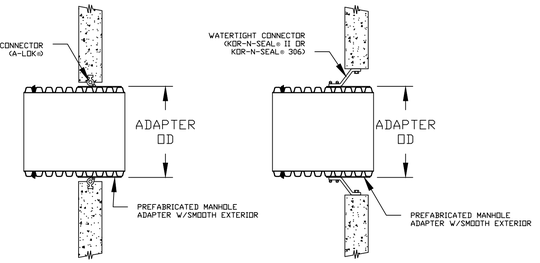
PIPE SIZE (IN)	ADAPTER OD (IN)		PRODUCT CODES		KOR-N-SEAL® **		A-LOK RING® **	
	A-PROFILE	H-PROFILE	A-PROFILE	H-PROFILE	SERIES 1 OR II	SERIES 306	A-PROFILE	H-PROFILE
12	14.73	14.45	1222AN	CUSTOM	S106-20BWS	N/A	480	475
15	17.98	18.05	1522AN	CUSTOM	S106-20WS	S306-22	580	580
18	21.71	22.0	1822AN	CUSTOM	S206-26	S306-26	710	710
24	28.52	28.9	2422AN	CUSTOM	S206-32	S306-32	915	930
30	35.92	36.0	3022AN	CUSTOM	S206-40	S306-40	1160	1180
36	42.06	42.15	3622AN	CUSTOM	S206-46	S306-46	1350	1360
42	48.54	48.75	4222AN	CUSTOM	S206-52L	S306-52L	1560	1570
48	54.53	55.75	4822AN	CUSTOM	S206-58L	S306-58L	1745	1790
54	N/A	61.75	N/A	CUSTOM	S206-64L	N/A	1940	1940
60	67.3	68.05	6022AN	CUSTOM	S206-72	N/A	2160	2170

NOTES:

PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

** THIRD PARTY - CODES AS SUPPLIED BY MANUFACTURER

KOR-N-SEAL is a registered trademark of NPC, Inc. (www.npc.com)
A-LOK is a registered tradenark of A-LOK Products, Inc. (www.a-lok.com)



TYPE 2A: A-LOK GASKET
(PRE-CAST)
W/HDPE PREFABRICATED MANHOLE
ADAPTER W/ SMOOTH EXTERIOR

TYPE 2B: KOR-N-SEAL (CORED
HOLE OR PRE-CAST) W/ FIELD
INSTALLED MANHOLE BOOT W/
HDPE PREFABRICATED MANHOLE
ADAPTER W/ SMOOTH EXTERIOR

SEE STANDARD DETAIL STD-201 AND TECHNICAL NOTE: 5.04 HDPE CONNECTIONS TO MANHOLES AND STRUCTURES FOR INSTALLATION RECOMMENDATIONS.

PIPE SIZE (IN)	ADAPTER OD (IN)		PRODUCT CODES		KOR-N-SEAL® **		A-LOK RING® **	
	A-PROFILE	H-PROFILE	A-PROFILE	H-PROFILE	SERIES 1 OR II	SERIES 306	A-PROFILE	H-PROFILE
12	14.73	14.45	1222AN	CUSTOM	S106-20BWS	N/A	480	475
15	17.98	18.05	1522AN	CUSTOM	S106-20WS	S306-22	580	580
18	21.71	22.0	1822AN	CUSTOM	S206-26	S306-26	710	710
24	28.52	28.9	2422AN	CUSTOM	S206-32	S306-32	915	930
30	35.92	36.0	3022AN	CUSTOM	S206-40	S306-40	1160	1180
36	42.06	42.15	3622AN	CUSTOM	S206-46	S306-46	1350	1360
42	48.54	48.75	4222AN	CUSTOM	S206-52L	S306-52L	1560	1570
48	54.53	55.75	4822AN	CUSTOM	S206-58L	S306-58L	1745	1790
54	N/A	61.75	N/A	CUSTOM	S206-64L	N/A	1940	1940
60	67.3	68.05	6022AN	CUSTOM	S206-72	N/A	2160	2170

NOTES:

PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

** THIRD PARTY - CODES AS SUPPLIED BY MANUFACTURER

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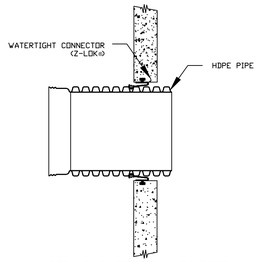


TYPE 4: Z-LOK (PRE-CAST MANHOLE GASKET)
SECURED DIRECTLY TO EXTERIOR
PIPE CORRUGATIONS

SEE STANDARD DETAIL STD-201 AND TECHNICAL NOTE: 5.04 HDPE CONNECTIONS TO MANHOLES AND STRUCTURES FOR INSTALLATION RECOMMENDATIONS.

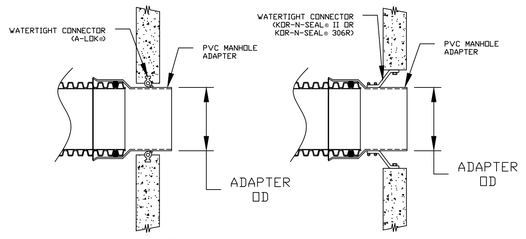
PIPE SIZE (IN)	PIPE OD (IN)		Z-LOK** RING	
	A-PROFILE	H-PROFILE	A-PROFILE	H-PROFILE
12	14.5	14.2	8016	8016
15	17.6	17.8	8019	8019
18	21.2	21.5	8022	8023
24	27.8	28.4	8029	8031
30	35.1	35.5	8039	8039
36	41.1	41.4	8045	8045

NOTES:

PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

** THIRD PARTY - CODES AS SUPPLIED BY MANUFACTURER

Z-LOK is a registered trademark of A-LOK Products, Inc. (www.a-lok.com)



TYPE 3A: A-LOK (PRE-CAST) MANHOLE
GASKET W/ PVC MANHOLE ADAPTER

TYPE 3B: KOR-N-SEAL (CORED
HOLE OR PRE-CAST) W/ FIELD
INSTALLED MANHOLE BOOT W/
PVC MANHOLE ADAPTER

REFER TO STANDARD DETAIL STD- 201. INSTALLATION RECOMMENDATIONS ARE ALSO SPECIFIED IN TECHNICAL NOTE 5.04 HDPE CONNECTIONS TO MANHOLES AND STRUCTURES

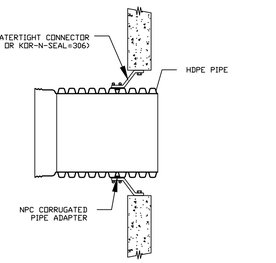
PIPE SIZE (IN)	ADAPTER OD	HANCOR PRODUCT CODES	KOR-N-SEAL® **		A-LOK RING® **
			SERIES 1 OR II	SERIES 306	
12	12.5	1268AG	S106-16AWP	N/A	410
15	15.3	1568AG	S106-20BWS	N/A	490
18	18.7	1868AG	S206-24A	S306-22	610
24	24.8	2468AG	S206-28	S306-28	800

NOTES:

PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

** THIRD PARTY - CODES AS SUPPLIED BY MANUFACTURER

KOR-N-SEAL is a registered trademark of NPC, Inc. (www.npc.com)
A-LOK is a registered tradenark of A-LOK Products, Inc. (www.a-lok.com)



TYPE 5: KOR-N-SEAL (CORED HOLE OR PRE-CAST
GASKET) W/ FIELD INSTALLED MANHOLE BOOT
W/RUBBER CORRUGATED
PIPE ADAPTER

SEE STANDARD DETAIL STD-201 AND TECHNICAL NOTE: 5.04 HDPE CONNECTIONS TO MANHOLES AND STRUCTURES FOR INSTALLATION RECOMMENDATIONS.

PIPE SIZE (IN)	PIPE OD (IN)		NPC ADAPTER *		KOR-N-SEAL®**	
	A-PROFILE	H-PROFILE	A-PROFILE	H-PROFILE	SERIES 1 OR II	SERIES 306
12	14.5	14.2	CGA-12	CGA-12	S106-20BWS	N/A
15	17.6	17.8	CGA-15	CGA-15	S106-20WS	S306-22
18	21.2	21.5	CGA-18	CGA-18H	S206-24L	S306-24L
24	27.8	28.4	CGA-24	CGA-24H	S206-32	S306-32
30	35.1	35.5	CGA-30	CGA-30H	S206-40	S306-40
36	41.1	41.4	CGA-36	CGA-36H	S206-44L	S306-44L
42	47.7	48.0	CGA-42	CGA-42H	S206-52L	S306-52L
48	53.6	54.0	CGA-48	CGA-48H	S206-58L	S306-58L
54	61.0	35.5	N/A	CGA-54H	S206-64L	N/A
60	66.3	67.3	CGA-60	CGA-60H	S206-72	N/A

* 12-24" DIAMETER ASSEMBLIES ARE RATED WATERTIGHT. 30-60" DIAMETER ASSEMBLIES SHALL BE RATER SOIL-TIGHT.

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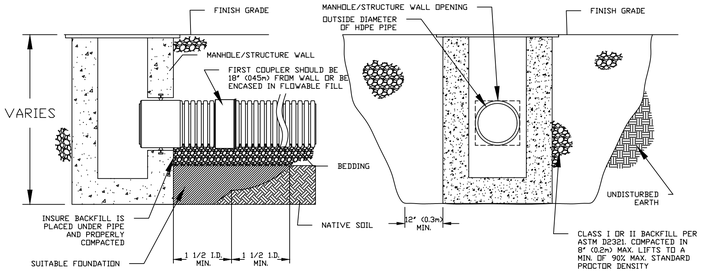
NOTES:

PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

** THIRD PARTY - CODES AS SUPPLIED BY MANUFACTURER

KOR-N-SEAL is a registered trademark of NPC, Inc. (www.npc.com)

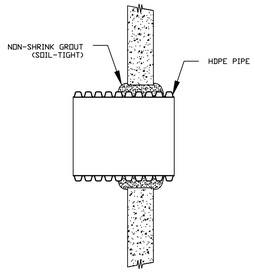


NOTES:

1. MAXIMUM INSERTION ANGLE SHALL NOT EXCEED REQUIREMENTS AS SPECIFIED BY THE MANUFACTURER.

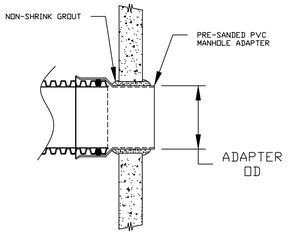
2. SEE STANDARD DETAILS STD-202 (A-B) THROUGH STD-204 (A-E) FOR STRUCTURE CONNECTIONS, PRODUCT INFORMATION AND DIMENSIONAL PIPE DATA. INSTALLATION RECOMMENDATIONS ARE ALSO SPECIFIED IN TECHNICAL NOTE 5.04: HDPE CONNECTIONS TO MANHOLES AND STRUCTURES.

3. PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONSMUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.



TYPE 1: SOIL-TIGHT USING NON-SHRINK
GROUT AND CORRUGATED PIPE

SEE STANDARD DETAIL STD-201 AND TECHNICAL NOTE: 5.04 HDPE CONNECTIONS TO MANHOLES AND STRUCTURES FOR INSTALLATION RECOMMENDATIONS.



TYPE 2: SANDED PVC MANHOLE ADAPTER
GROUTED
INTO MANHOLE WALL

PIPE SIZE (IN)	ADAPTER OD (IN)	HANCOR PRODUCT CODES
12	12.5	1277AG
15	15.3	1577AG
18	18.7	1877AG
24	24.8	2477AG
30	32.0	3077AG

** FOR USE WITH A PROFILE PIPE ONLY **

*PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

NO.	REVISIONS	BY	DATE

DES BY:
DRN BY:
CHK BY:
APPD BY:
DATE:
SCALE:

SUBMITTED BY: DATE:
APPROVED BY: DATE:
ENGINEER:

TOWN OF WATERTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROJECT TITLE:
TOWN OF WATERTOWN
STANDARD DETAIL DRAWINGS

DRAWING TITLE:
STANDARD ADS
MANHOLE/STRUCTURE CONNECTIONS

PROJECT NO.
FILE NO.
DRAWING NO. 153WTN-9C
SHEET NO. 153WTN-9C