

# City of North Ridgeville

## Building Department

7307 Avon Belden Rd, North Ridgeville, OH 44039

Phone: (440) 353-0822 Fax: (440) 353-0823



### INSTRUCTIONS FOR INSTALLATION OF PRIVATE STORM LATERALS

#### REQUIREMENTS FOR PERMIT:

- Completed application form
  - Plot plan of property showing lot lines, setbacks & drainage
  - Estimated cost of construction
  - Name of Contractor, if applicable (Contractor must be registered with the City of North Ridgeville)
  - Homeowner's signature or copy of signed agreement/contract
- REVIEW PROCESS:**  
(allow 1 week for processing)
- Submit application and drawing(s) to Building Department
  - Review of the grading/drainage & easements with Engineering Department is required prior to issuance of permit
  - Building Department will notify applicant when plan review is complete and permit is ready to be picked up

#### FEES:

- See fees listed on Residential Building Permit Fees page (website or handout)
  - o Base Permit Fee
  - o Administration Fee

#### CONNECTION SPECIFICATIONS AND EASEMENTS:

- Lateral connections may be connected to existing storm infrastructure located in storm easements, with City Engineer approval, HOA approval and City approval in right-of-way (indicate request on drawing at the time of application submission)
- Must use lateral connections based on attached specifications. (Kor-N-Tee for RCP pipe and Inserta-Tee connection for plastic pipe)
- No grade change authorized without grading plan and approval of City Engineer (\$75 Fee).

#### INSPECTIONS REQUIRED:

- Must call Engineering Department 24 hours in advance for inspection
- Trench must be left open and pipe joints exposed.
- Do not connect downspouts.
- Do not change grade in side yards higher than adjoining properties.



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### STORM LATERAL PLAN APPROVAL APPLICATION

CONSTRUCTION SITE ADDRESS: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_\_\_

CONTRACTOR ADDRESS: \_\_\_\_\_

CONTACT PHONE #: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

PROPERTY OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

PROPERTY OWNER ADDRESS: \_\_\_\_\_

CONTACT PHONE #: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

(CHECK ALL ACTIVITIES PERTAINING TO THIS APPLICATION)

**NEW CONSTRUCTION:**  Single Family  Multi-Family # of Units \_\_\_\_\_

Square Footage: Finished Basement: \_\_\_\_\_ 1st Fl.: \_\_\_\_\_ 2nd Fl.: \_\_\_\_\_ Total: \_\_\_\_\_

Garage:  Attached  Detached  Storage Building Size: W \_\_\_\_\_ x D \_\_\_\_\_ Square Feet: \_\_\_\_\_

Sub Lot #: \_\_\_\_\_ Permanent Parcel #: \_\_\_\_\_ Water Permit #: \_\_\_\_\_

Zoning District: \_\_\_\_\_ Subdivision: \_\_\_\_\_ Model / Plan Name: \_\_\_\_\_

**YARD REQUIREMENTS:** Width at R.O.W. : \_\_\_\_\_ Flood Plain Zone: \_\_\_\_\_

**ADDITION / ALTERATION:** Year Dwelling Built: \_\_\_\_\_ Addition/Alteration Square Footage: \_\_\_\_\_

Dwelling Addition  Garage Addition  Storage Bldg. Addition  Kitchen Remodel  Basement Remodel

#### **GENERAL PERMITS:**

Re-Siding  Re-Roofing  Fire Damage Repair  2nd water meter

Demo  Above-Ground Pool  In-Ground Pool  Lawn Sprinkler

Gazebo  Other : \_\_\_\_\_

Fence Style: \_\_\_\_\_ Size: \_\_\_\_\_

Deck Size: \_\_\_\_\_ Square Feet: \_\_\_\_\_

#### **PERMIT FEES**

To be calculated by Building Dept.

PERMIT: \_\_\_\_\_

STATE 1%: \_\_\_\_\_

ADMIN.: \_\_\_\_\_

TOTAL: \_\_\_\_\_

#### **HVAC:**

Heat:  New  Replacement A/C:  New  Replacement Fireplace:  New  Replacement

Condensing Unit Location:  Rear yard  Left side yard  Right side yard

Furnace Capacity: \_\_\_\_\_ BTU's Water Heater Capacity: \_\_\_\_\_ BTU's

Furnace Fuel Type:  Natural Gas  L.P. Gas  Electric  Other: \_\_\_\_\_

Water Heater Fuel Type:  Natural Gas  L.P. Gas  Electric  Other: \_\_\_\_\_

Air Conditioner Capacity: \_\_\_\_\_ Tons Ductwork Type:  Sheet metal  Duct board

Gas Meter Location:  Front yard  Rear yard  Left side yard  Right side yard

Water Meter Location:  Front  Rear  Left side  Right side

**The following information must be clearly identified on the Construction drawings: Furnace location, water heater location, vent termination for dryer, furnace & water heater, water meter location (if slab construction).**

Indicate Energy Code compliance method: \_\_\_\_\_



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**PLUMBING:**  New  Alteration  Service Line

Indicate fixture count below:

Water Closet(s) _____	Floor Drain(s) Bidet(s) _____	Backflow Device(s) _____
Lavatory(s) _____	Sink(s) _____	Laundry Tub(s) _____
Water Heater(s) _____	Shower(s) _____	Bath Tub(s) _____
Dishwasher(s) _____	Clothes Washer(s) _____	Sump Pump(s) _____
Hot Tub(s) _____	Sewage Grinder(s) _____	Garbage Disposal(s) _____
Other(s) _____		

Building Main Drain size: \_\_\_\_\_ inches. Building Water Service size: \_\_\_\_\_ inches.

Water Distribution System:  Copper  PVC / plastic

**ELECTRICAL:**  New  Alteration/Addition  Service Change  Service Entrance Service Amps: \_\_\_\_\_

Indicate load wattages & amperages for each item applicable below:

Range: _____ watts	Cook top: _____ watts	Oven: _____ watts
Water Heater: _____ watts	Clothes Dryer: _____ watts	Gas Clothes Dryer: _____ watts
Dishwasher: _____ watts	Disposal: _____ watts	Sump Pump: _____ watts
Sewage Ejector: _____ watts	Water Pump: _____ watts	Other: _____ watts

Air Conditioner: \_\_\_\_\_ volts \_\_\_\_\_ amps

Furnace: \_\_\_\_\_ volts \_\_\_\_\_ amps

Electric Space Heater: \_\_\_\_\_ volts \_\_\_\_\_ amps

Heat Pump: \_\_\_\_\_ volts \_\_\_\_\_ amps

TRADE	NAME OF CONTRACTOR	REGISTERED
Masonry:	_____	Yes / No
Carpentry:	_____	Yes / No
Plumbing:	_____	Yes / No
Electrical:	_____	Yes / No
HVAC:	_____	Yes / No
Decorating:	_____	Yes / No
Floor Covering:	_____	Yes / No
Drywall:	_____	Yes / No
Excavator:	_____	Yes / No
Pool Erector:	_____	Yes / No
Landscaper:	_____	Yes / No
Other:	_____	Yes / No

(Circle one)

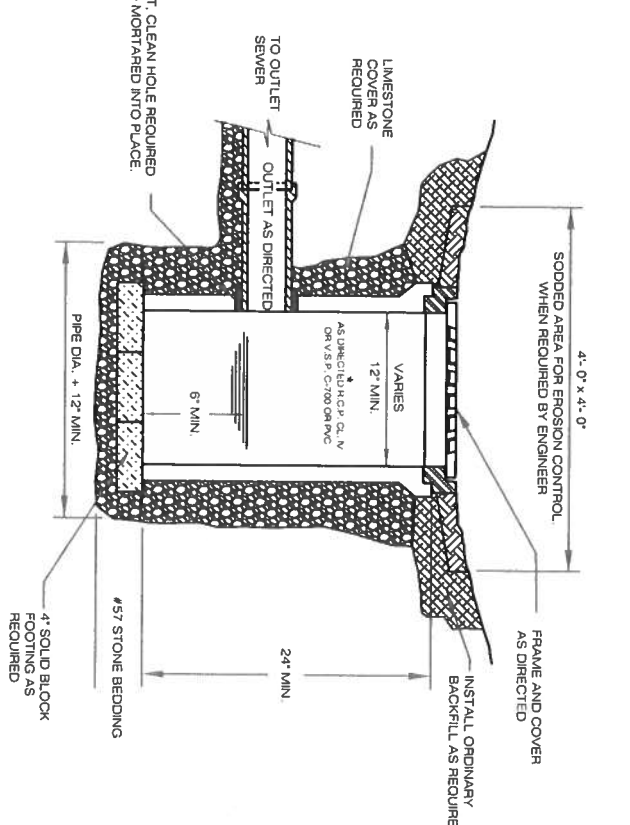
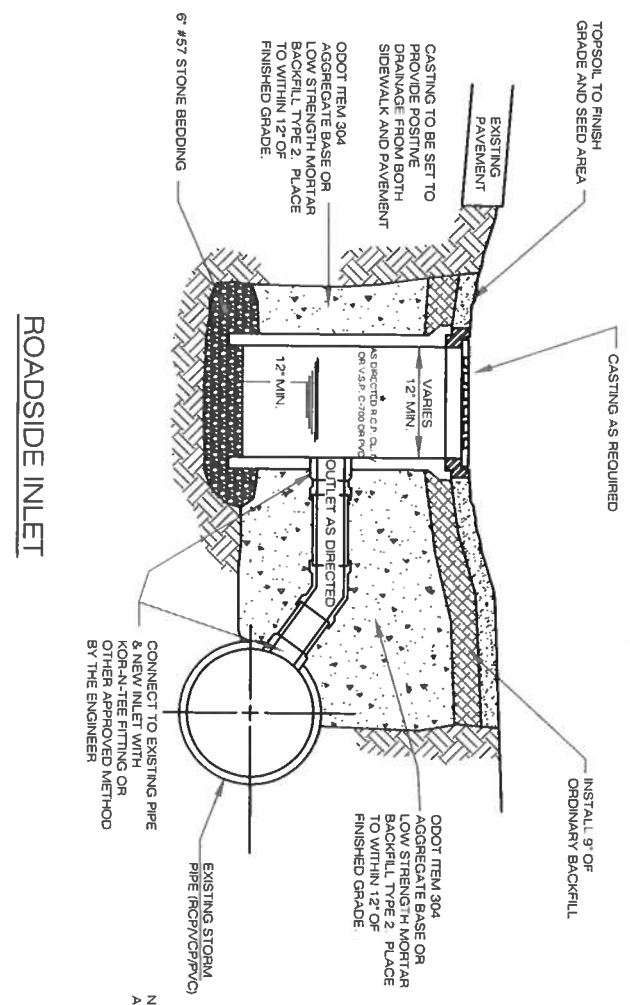
**NOTE:** All contractors submitted regarding this permit, must be registered and approved by the Building Dept. for the current year.

Cost of Construction: \$ \_\_\_\_\_ Applicant's Signature: \_\_\_\_\_

Property Owner's Signature: \_\_\_\_\_

Sidewalk Ordinance received date: \_\_\_\_\_ Applicant's Signature: \_\_\_\_\_

Date: \_\_\_\_\_ Approved: \_\_\_\_\_



**ROADSIDE INLET**

**YARD INLET  
GENERAL AREA**

**Notes:**

Backfill for all structures within 5' of the pavement shall be ODOT Item 304 Aggregate Base or Low Strength Mortar Backfill, TYPE 2 per current O.D.O.T. Construction and Material Specifications, except as modified herein.

**The use of Foundry Sand or Slag is strictly prohibited.**

PIPE SIZE AS DIRECTED BY THE ENGINEER (MINIMUM 12")

IF NECESSARY, BICYCLE SAFE GRATE SHALL BE SPECIFIED IN THE PLANS.

CATALOG NO.			
*	EAST JORDAN	*	**
**	EAST JORDAN	**	**
6532	6012	R-4340-H	R-4030-12
6533	6015	R-4340-G	R-4030-15
6534	6018	R-4340-F1	R-4030-18
6536	6024M1	R-4340-F	R-4030-24
			24"

OTHER CASTINGS ACCEPTED UPON APPROVAL OF THE CITY ENGINEER  
 \* INDICATES DOMED OR BEHVE GRATE CATALOG NO.  
 \*\* INDICATES FLAT GRATE CATALOG NO.

CITY OF NORTH RIDGEVILLE ENGINEER

CITY OF NORTH RIDGEVILLE, OHIO  
 DEPARTMENT OF ENGINEERING

**ROADSIDE & YARD  
 INLET DETAILS**

SCALE: NOT TO SCALE  
 DATE: 10/01/08  
 DRAWN BY: JAB/BER

STM-8

# Kor-N-Tee® Pipe-To-Pipe Connector

## Data Sheet & Installation Instructions



The Kor-N-Tee Pipe-to-Pipe Connector is an economical, watertight seal for concrete pipe that can be installed quickly and easily without complete excavation of the pipe and disruption of the bedding.

Designed for concrete pipe 12 inches and larger with lateral connections 4-10 inches; it provides a flexible lateral connection that accommodates ground movement and helps prevent shear. The toggle and wedge installation band eliminates the need for glue, epoxy or grout when making a connection.

The "positive stop" located inside of the Kor-N-Tee prohibits protrusion of the lateral pipe into the main line and materials of construction meet or exceed ASTM C-923 specifications.

### Installation Instructions:

1. Core a hole in the main line consistent with the model number for the lateral pipe O.D.
2. Inspect the inside surface of the cored hole. If there is porosity or wire-to-cement separation, use patching or hydraulic cement to smooth the surface.
3. Insert the Kor-N-Tee Assembly into the hole and expand the Wedge or Toggle Korband.
4. Insert the lateral pipe until it "bottoms" on the positive stop in the Kor-N-Tee.
5. Install the Lateral Pipe Clamp in the molded groove and tighten to 60 inch pounds using T-Handle Torque Wrench, P/N 80090.

### Installation Tools for Toggle Korband:

Korband Expander Assembly  
(P/N 90349 for 5" & 6")  
(P/N 90225 for 7", 9", & 11")



Foot Extension for 9" and 11"

9": P/N 10831

11": P/N 12305



Use in conjunction with P/N 90225

Sizing Chart						
Connector P/N	Lateral Pipe O.D. Range	Hole Size Range	Pipe Clamp	Min. Pipe I.D.	Min. Wall Thickness	Installation Tools Required
S006-5	4.125 - 4.800	4.960 - 5.010	I-80	12	2.00	90349
S006-6	5.125 - 5.625	5.960 - 6.010	I-128	12	2.00	90349
S006-7B	5.875 - 6.375	6.995 - 7.055	I-128	12	2.00	90225
S006-7BWS						Torque Wrench
S006-7A	6.750 - 7.750	6.995 - 7.055	I-128	12	2.00	90225
S006-9A	8.000 - 8.750	8.990 - 9.050	I-180	18	2.25	90225 & 10831
S006-9	8.500 - 9.875	8.990 - 9.050	I-180	18	2.25	90225 & 10831
S006-11	10.000 - 10.750	11.025 - 11.115	I-190	21	2.50	90225 & 12305

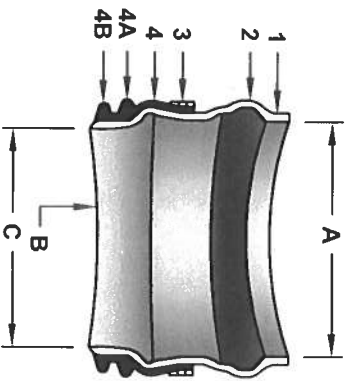
\* The S006-7BWS with Steel Wedge requires 1/2" socket wrench. Torque to 8ft. Lbs.

## SDR 35 GASKETED BELL GRAVITY APPLICATIONS

**A. EQUIVALENT O.BELL END ACCEPTS PIPE WITH SDR 35, ASTM D3034 OR EQUIVALENT O.D. SPECIFICATION IN 8", 10", 12", 15", 18", 21", 24", 27", AND 30" SIZES. (FOR 4" AND 6" SIZES REFER TO FATBOY SPECIFICATIONS).**

**B. CURVATURE VARIES WITH MAINLINE DIAMETERS.**

**C. SPIGOT END PVC SDR 35, ASTM D3034 DIAMETERS: 8", 10", 12", 15", 18", 21", 24", 27" AND 30"**



PART	PART NAME
1	HUB ADAPTOR
2	RUBBER GASKET
3	SECURING CLAMP*

4	RUBBER SLEEVE (AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER)
4A	UPPER SEGMENT**
4B	LOWER SEGMENT***

**MATERIALS**  
 PVC SDR 35 ASTM D3034  
 ASTM F477  
 BAND SS #301  
 SCREW SS #305  
 HOUSING SS #301  
 ASTM F477

\* OPTIONAL: #316 STAINLESS STEEL BAND, SCREW AND HOUSING  
 \*\* DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE  
 \*\*\* WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE

INSERTA TEE SIZE	HOLE DIAMETER
8" (200 mm)	8 3/4" (222mm)
10" (250 mm)	10 7/8" (276mm)
12" (300 mm)	12 7/8" (327mm)
15" (375 mm)	15 13/16" (402mm)
18" (450 mm)	19 3/16" (503mm)
21" (525 mm)	22 9/16" (573mm)
24" (600 mm)	25 5/16" (643mm)
27" (675 mm)	28 1/2" (724mm)
30" (750 mm)	32 7/32" (826mm)

NOTE: RECOMMENDED METHOD OF CUTTING HOLE IS WITH HOLE SAW FOR PVC AND OTHER PLASTICS, AND DIAMOND BIT FOR CONCRETES, CLAY, FRP AND D.I. (SEE INSTALLATION INSTRUCTIONS. HOLE SAWS ARE AVAILABLE FOR PURCHASE OR RENT.)



INSERTA TEE | PO BOX 714  
 CORNELLUS, OR 97113  
 PH: (503) 357-2110 FAX: (503) 359-5417  
 SALES@INSERTATEE.COM

### SDR 35 GASKETED BELL GRAVITY APPLICATION SPECIFICATIONS

SCALE:	NTS
DATE:	7/30/13
DRAWN BY:	JJC

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