

# SUBMITTAL FOR CHARLOTTE PIPE® HUBLESS CAST IRON SOIL PIPE AND FITTINGS

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

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_

## Scope:

This specification covers Hubless Cast Iron pipe, fittings, and couplings used in sanitary drain, waste and vent (DWV), sewer, and storm drainage applications. This system is intended for use in non-pressure applications.

## Specification:

Hubless Cast Iron pipe and fittings shall be manufactured from gray cast iron and shall conform to ASTM A 888 and CISPI Standard 301. All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute® and listed by NSF® International. Hubless Couplings shall conform to CISPI Standard 310, shall be manufactured in the United States, and be certified by NSF® International. Heavy Duty and Medium Duty couplings shall conform to ASTM C 1540, shall be manufactured in the United States, and shall be used if indicated.

## Installation:

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry Company® and shall conform to all applicable plumbing, fire, and building code requirements. The system shall be hydrostatically tested after installation to 10 ft. of head (4.3 psi maximum). **WARNING!** Never test with or transport/store compressed air or gas in Cast Iron pipe or fittings. Doing so can result in explosive failures and cause severe injury or death.

## Referenced Standards:

ASTM C 564: Rubber Gaskets for Cast Iron Soil Pipe and Fittings  
CISPI 301: Hubless Cast Iron Soil Pipe and Fittings  
CISPI 310: Hubless Couplings for Cast Iron Soil Pipe and Fittings  
ASTM C 1277: Hubless Couplings  
ASTM C 1540: Hubless Medium Duty and Heavy Duty Couplings



Reviewed for general conformance to the contract documents. This review does relieve the vendor of the responsibility of making the work conform to the plans and the **FDOT Design Standards**.

Submittal #: 37  
CDC: I-PLUMBING-GGTMF-021419  
Job #: 424  
Reviewed by: EDUARDO PEREIRA  
Date: 10/03/2019  
Vendor: REVISION  
Product: PIPE & FITTING CAST IRON DWV (ABOVE GROUND)  
Description:



1/4 Bend

1/8 Bend

Wye

Combination

San Tee

San Cross

Test Tee

Reducer

"P" Trap

Blind Plug

Figure Eight

Two-Way Cleanout

**Not all fitting patterns shown**

**TABLE 1**  
**DIMENSIONS AND TOLERANCES (IN INCHES) OF SPIGOTS**  
**AND BARRELS FOR NO-HUB PIPE AND FITTINGS**

Size	Inside Barrel Diameter	Outside Diameter Barrel	Outside Diameter Spigot	Width Spigot Bead N	Thickness of Barrel	Gasket Positioning Lug	
	B	J	M	(± .13)	T-Nom.	T-Min.	W
1 1/2	1.50 ± .09	1.90 ± .06	1.96 ± .06	.25	.16	.13	1.13
2	1.96 ± .09	2.35 ± .09	2.41 ± .09	.25	.16	.13	1.13
3	2.96 ± .09	3.35 ± .09	3.41 ± .09	.25	.16	.13	1.13
4	3.94 ± .09	4.38 ± .09	4.44 ± .09	.31	.19	.15	1.13
5	4.94 ± .09	5.30 + .09 - .05	5.36 ± .09	.31	.19	.15	1.50
6	5.94 ± .09	6.30 + .09 - .05	6.36 ± .09	.31	.19	.15	1.50
8	7.94 ± .13	8.38 ± .09	8.44 ± .09	.31	.23	.17	2.00
10	10.00 ± .13	10.56 ± .09	10.62 ± .09	.31	.28	.22	2.00
12	11.94 ± .09	12.50 ± .13	12.62 ± .13	.31	.28	.22	2.75
15	15.11 ± .09	15.83 ± .13	16.12 ± .13	.31	.36	.30	2.75

**Note:** Charlotte Pipe does not recommend or warrant installations joined with unshielded hubless couplings.

Charlotte Pipe and Foundry Company • P.O. Box 35430 Charlotte, NC 28235 • (800) 438-6091 • [www.charlottepipe.com](http://www.charlottepipe.com)

# CHARLOTTE

## PIPE AND FOUNDRY COMPANY®

### Certifications

This is to verify that products manufactured by Charlotte Pipe and Foundry, Cast Iron Division, are manufactured in the United States and conform to the following standards:

#### **SERVICE HUB AND SPIGOT PIPE AND FITTINGS**

All cast iron soil pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute (CISPI).  
ASTM A 74  
Listed by NSF® International to the UP Code  
ISO 9001:2008 Certified

#### **EXTRA HEAVY HUB AND SPIGOT PIPE AND FITTINGS**

All cast iron soil pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute (CISPI).  
ASTM A 74  
Listed by NSF® International to the UP Code  
ISO 9001:2008 Certified

#### **HUBLESS PIPE AND FITTINGS**

All cast iron soil pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute (CISPI).  
CISPI Standard 301  
ASTM A 888  
Listed by NSF® International to the UP Code  
ISO 9001:2008 Certified

#### **HUBLESS COUPLINGS**

CISPI Standard 310  
ASTM C 1277  
Certified by NSF® International

#### **HUBLESS HEAVY DUTY COUPLINGS**

Meets ASTM C 1540

#### **COMPRESSION GASKETS**

ASTM C 564  
CISPI HSN 85

Very truly yours,



Hooper Hardison, President



Notary Public  
My commission expires July 02, 2022

TERRI L WILSON  
NOTARY PUBLIC  
UNION COUNTY, NC  
My Commission Expires 7-2-2022

LC-CI (7-18-18)

