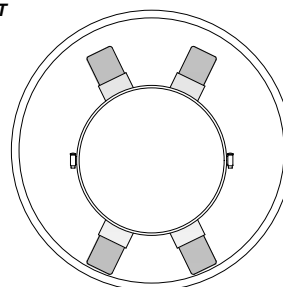


#### SPACER MATERIAL SPECIFICATIONS

1. SHELL - MINIMUM 14 GAUGE T-304 STAINLESS STEEL. ALL SURFACES ARE FULLY CHEMICALLY PASSIVATED. FLANGES ARE RIBBED FOR STRENGTH
2. RISERS - MAXIMUM 10 GAUGE T-304 STAINLESS STEEL, REINFORCED 6" AND OVER IN HEIGHT
3. FASTENERS - 5/16 - 18 T-304 STAINLESS STEEL
4. LINER - PVC, 0.90 THICK, 85-90 DUROMETER (ASTM D1706 - 61T)  
MAX. CONSTANT OPERATING TEMPERATURE - 150 DEGREES (F)  
ELECTRICAL PROPERTIES - (ASTM - D149 - 61) 1380 V/min.  
RESISTANCE - SALT SPRAY (ASTM - B117) EXCELLENT  
- ACIDS GOOD
5. RUNNERS - ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE  
LOW COEFFICIENT OF FRICTION  
HIGH RESISTANCE TO ABRASION AND SLIDING WEAR  
TOUGHNESS UNDER IMPACT  
LOW DEFLECTION UNDER COMPRESSION  
DIELECTRIC INSULATION

CASCADE CASING SPACERS MODEL CCS AS MANUFACTURED BY  
CASCADE WATERWORKS MFG. OR APPROVED EQUAL



**SECTION A-A**

## SEWER CASING

NOT TO SCALE

#### NOTES:

1. SUBMIT SHOP DRAWINGS TO THE CITY ENGINEERING DEPARTMENT FOR APPROVAL
2. ALL CHANGES TO MATERIALS OR MODIFICATIONS TO PLANS MUST BE PRE-APPROVED BY THE CITY ENGINEERING DEPARTMENT
3. RECORD DRAWING SHALL INCLUDE ELEVATION AT EACH END OF THE PIPE AND CASING, LOCATION OF EACH OF THE CASING, CASING LENGTH, SIZE, TYPE, A PROFILE DRAWING OF THE CASING CONTAINING THE ABOVE INFORMATION. INCLUDE ANY SPECIAL CONDITIONS OR NOTES

*The City Of Goshen*  
Department of Public Works & Safety  
Office of Engineering

204 East Jefferson, Suite 1 Street, Goshen, Indiana 46528  
Phone: 574-534-2201 Fax: 574-533-8626  
Web: goshenindiana.org

Date Approved By The City Of Goshen Board Of Public Works & Safety and Approved Revisions

03/27/2025	07/24/2025				

**CITY OF GOSHEN, INDIANA**  
**STANDARD DETAIL**

Drafted By: J. Hoffman  
Approved By: D. Sailor, P.E.  
Drawing Number: **SW-123**