

## Joint Restraint for Reducers

| "A" \ "B" | 6"   | 8"   | 10"  | 12"  | 16"  | 20"  | 24"  | 30"  | 36" | 42" |
|-----------|------|------|------|------|------|------|------|------|-----|-----|
| 8"        | 13'  |      |      |      |      |      |      |      |     |     |
| 10"       | 24'  | 13'  |      |      |      |      |      |      |     |     |
| 12"       | 33'  | 24'  | 13'  |      |      |      |      |      |     |     |
| 16"       | 51'  | 44'  | 36'  | 26'  |      |      |      |      |     |     |
| 20"       | 68'  | 62'  | 55'  | 47'  | 26'  |      |      |      |     |     |
| 24"       | 83'  | 79'  | 73'  | 66'  | 49'  | 27'  |      |      |     |     |
| 30"       | 106' | 103' | 98'  | 92'  | 78'  | 61'  | 39'  |      |     |     |
| 36"       | 129' | 126' | 122' | 118' | 106' | 91'  | 73'  | 40'  |     |     |
| 42"       | 151' | 149' | 145' | 141' | 131' | 118' | 103' | 75'  | 40' |     |
| 48"       | 174' | 171' | 168' | 165' | 156' | 145' | 131' | 107' | 76' | 41' |

Table for L (in feet) Required Length of Restrained Joints on Larger Diameter Pipe

"A" - Diameter of Pipe

"B" - Diameter of Smaller Pipe

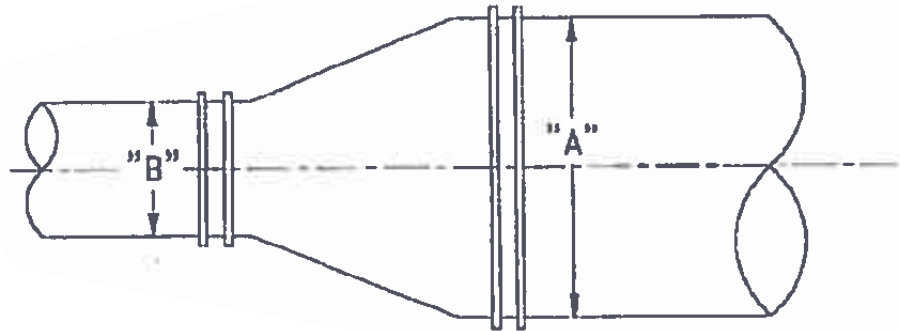
Pressure = 150 psi

Safety Factor = 1.33

Soil Designation = Clay 1

Depth of Cover = 4.5'

Laying Conditions = Type 4 Bedding



Date: 3/02/2018

Standard Construction Drawing



Restrained Joints for Reducer  
Ductile Iron Pipe

Drawing No.  
**WTR-21**