

DESIGN SPECIFICATIONS

<u>Pipe</u>	<u>Pipe - NPS 6</u>	<u>Units</u>
Material	Polyethylene	
Diameter	168.3 (average)	mm
Wall Thickness	15.29 (min)	mm
Grade	SDR 11	
Specification	CSA B137.4	
Material Toughness	N/A	
Pipe Coating Specifications	N/A	
Cathodic Protection	N/A	
Cathodic Specification	N/A	
Class Location	4	
Design Pressure	440	kPa
Hoop Stress at Design Pressure	n/a	
Maximum Operating Pressure (MOP)	380	kPa
Hoop Stress at MOP	n/a	
Minimum Cover	0.9	metre
Fittings	CSA B137.4	
Flanges	N/A	
Valves	CSA B137.4	
Test Medium	Nitrogen or Air	
Test Pressure	700	kPa
Hoop Stress at Test Pressure	n/a	

DESIGN SPECIFICATIONS

<u>Pipe</u>	<u>Pipe - NPS 8</u>	<u>Units</u>
Material	Steel	
Diameter	219.1	mm
Wall Thickness	4.8	mm
Grade	359	MPa
Specification	CSA Z245.1	
Material Toughness	CSA Z245.1	
Pipe Coating Specifications	CSA Z245.20	
Cathodic Protection	CGA OCC-1	
Cathodic Specification	Double Fusion Bond Epoxy	
Class Location	4	
Design Pressure	4500	kPa
Hoop Stress at Design Pressure	28.6% SMYS*	
Maximum Operating Pressure (MOP)	2759	kPa
Hoop Stress at MOP	17.5% SMYS*	
Minimum Cover	1.0	metre
Fittings	CSA Z245.11	
Flanges	CSA Z245.12	
Valves	CSA Z245.15	
Test Medium	Water	
Strength Test Hydrostatic Pressure	9000	kPa
Hoop Stress at Strength Test Pressure	57.2% SMYS	
Leak Test Hydrostatic Pressure	6300	kPa

*SMYS – Specified Minimum Yield Strength