



July 15, 2025

City of Oceanside Water Utilities Dept
300 N Coast Hwy, Oceanside, CA 92054Sarita Lemons, P.E. (760) 435-5873
slemons@oceansideca.org**RE Oceanside Mesa Loma 18" Transmission Main - Primus Liner 18-inch (300')**

Advantage Reline Services (ARS) would like to thank you for the opportunity to provide a solution for the rehabilitation of your 18-inch transmission main. Primus is polyethylene lined and coated Kevlar, which makes it just about the same makeup of HDPE without the thick walls and fused joints. The Kevlar provides the tensile strength in the pipe, which also allows the pipe to expand and contract much better than HDPE. While vacuums and surges in pressure pipes are not ideal, Primus Line allows those events to happen without catastrophic failure of the pipe. Some other big Advantages with Primus compared to other pressure pipe rehab systems is that it can be pulled through 45-degree and 90-degree bends and can be pulled up the 6,000 feet in a single installation depending on pipe diameter. (Product Data in Attachment 1).

After discussing and review of the project, ARS has determined that the repair can be successfully completed utilizing our process. Below is a summary of the scope of work to be performed by ARS.

ITEMS TO BE COMPLETED OR PROVIDED BY ARS:

- Trained Contractors to access confined space as needed
- Mobilization of equipment and reline team
- Video and camera line pre-installation
- Clean and prep pipe for Primus installation
- Installation of Primus Pipe and Fittings
- Bonds and Certified Payroll

ITEMS NOT INCLUDED IN QUOTE BUT CAN BE PROVIDED:

- All permits for accessing or working at any of the locations
- Traffic control permits or anything beyond temporary traffic control
- Excavation, shoring, backfill or development of access pits
- Backfill compaction, asphalt, concrete or any finished work
- Hydrostatic testing or sanitizing
- Mechanical Flange Adapters

THE MATERIAL PROPERTIES OF THE PRIMUS LINE SYSTEM INCLUDE THE FOLLOWING:

- Termination fittings are Class 150, manufactured by Primus Line
- No resin, or volatile organic compounds involved in installation
- C Factor of 150 and NSF 61 Approved Material
- 5 Year Warranty

PROPOSAL OF TASK AND COST

Mobilization of Crew & Equipment

Cleaning & Hydrojetting

Pre Installation Video

Primus Liner, Medium Pressure 18 inch pipe 300 feet

Primus Fittings, Medium Pressure 18 inch Qty 2

Freight FOB Germany & Tariffs

Transport Reel / Packaging / Respooling

Domestic Shipping

Install Labor for Material & Fittings

Bonds

Additional Auto Liability

Total Project Liner Feet: 300

\$ 150,570.00**NCTD Worker Protection Training Allowance (\$5,000)****TOTAL = \$155,570.00**

Pricing and scope of work is based on verbal discussions and general assessments. After Quote has been accepted, ARS can confirm scope of work and any additional items that may need to be added to complete this project. Material Deposit required once scheduling the job has been confirmed. Remaining balance due upon completion.

ARS would like to thank you for the opportunity to assist you with your pipe rehabilitation needs. We look forward to working with you.

BY: _____

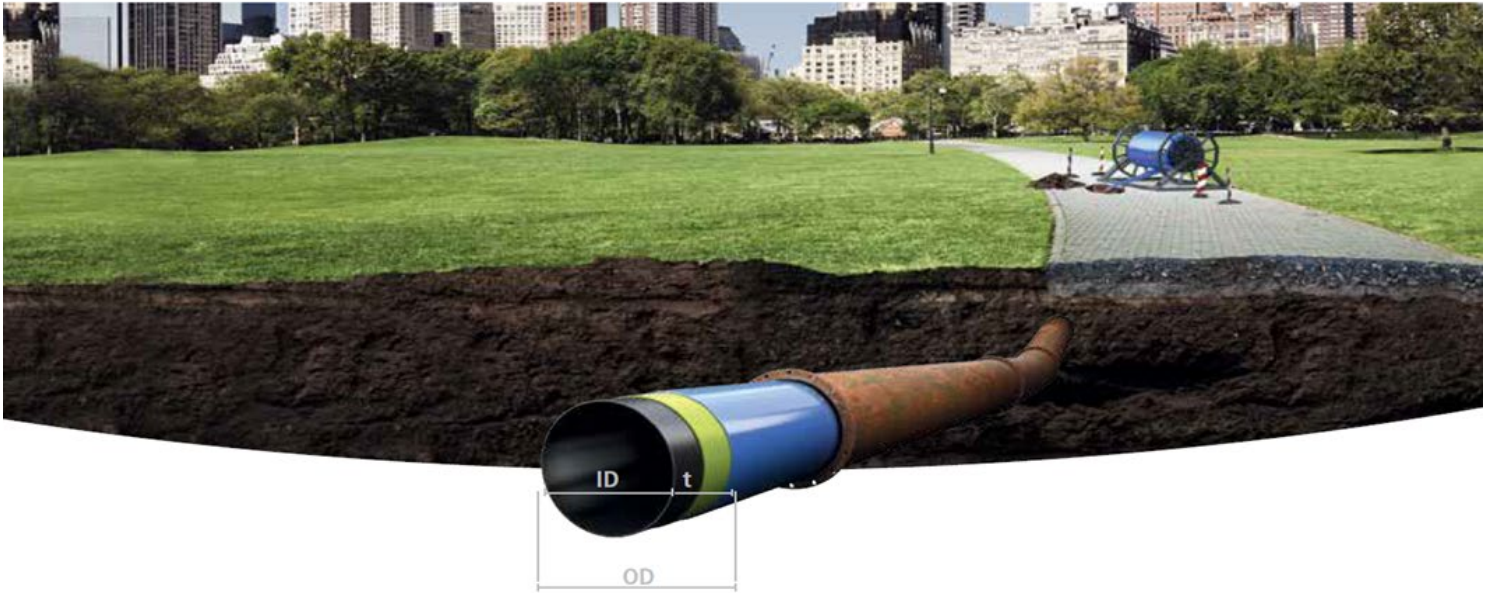
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Attachment 1
Primus Line Product Data

PRIMUS LINE Product Portfolio



	Primus Line® low pressure							Primus Line® medium pressure							Primus Line® high pressure						
	single-layer hybrid design							single-layer Kevlar® design							double-layer Kevlar® design						
	OD	t	ID	burst	MOP water	weight water		OD	t	ID	burst	MOP water	weight water	MOP oil/gas	weight oil/gas						
	inch	inch	inch	psi	psi	lbs/ft		inch	inch	inch	psi	psi	lbs/ft	psi	lbs/ft	inch	inch	inch	psi	psi	lbs/ft
Primus Line® DN 150/6"	5,28	0,24	4,80	914	363	1,4		5,28	0,24	4,80	2030	812	1,5	508	1,6						
Primus Line® SD 150/6"SD	5,91	0,24	5,43	783	290	1,6		5,91	0,24	5,43	1740	696	1,6	435	1,8	6,30	0,31	5,67	2987	1189	2,2
Primus Line® DN 200/8"	7,17	0,24	6,69	682	261	1,9		7,17	0,24	6,69	1450	580	2,0	363	2,2	7,56	0,31	6,93	2509	1001	2,7
Primus Line® SD 203/8"SD	7,99	0,24	7,52	609	232	2,2		7,99	0,24	7,52	1218	479	2,3	305	2,5						
Primus Line® DN 250/10"	9,33	0,24	8,86	551	218	2,6		9,33	0,24	8,86	1088	435	2,7	261	3,0	9,84	0,31	9,21	1856	740	3,6
Primus Line® SD 261/10"SD	10,28	0,24	9,80	435	174	2,8		10,28	0,24	9,80	928	363	2,9	232	3,3						
Primus Line® DN 300/12"	11,18	0,24	10,71	435	174	3,1		11,18	0,24	10,71	928	363	3,2	232	3,6	11,57	0,31	10,94	1595	638	4,3
Primus Line® DN 350/14"	-	-	-	-	-	-		12,36	0,24	11,89	725	290	3,5	174	3,9						
Primus Line® DN 400/16"	-	-	-	-	-	-		13,94	0,24	13,46	667	261	4,0	160	4,5	14,33	0,31	13,70	1189	464	5,4
Primus Line® DN 450/18"	-	-	-	-	-	-		16,06	0,24	15,59	580	232	4,7	145	5,2						
Primus Line® DN 500/20"	-	-	-	-	-	-		17,87	0,24	17,40	580	232	5,2	145	5,8						

The information in this document is based on our current knowledge and experience. Unless specified through a standard, the tests were carried out using internal methods on in-house testing equipment. Tests using other methods or other test equipment might produce different results. As a result of our ongoing development work, we reserve the right to modify products and change the features of the products. The information provided in this document cannot be used to derive any legally binding assurance or warranty for certain properties or the suitability of the product for a specific application. **Primus Liner DN 150/6", DN 200/8", DN 250/10", DN 300/12" low pressure (water) on stock. Primus Liner DN 150/6", DN 200/8", DN 250/10", DN 300/12", DN 350/14", DN 400/16", DN 450/18", DN 500/20" medium pressure (water) on stock.**

Remark: The indicated maximum operating pressure (MOP) includes safety factors and is valid for a straight course of the pipe without bends. Maximum operating pressure (MOP) in bends according to specification of the technical department of Rädlinger primus line GmbH.