



PROPOSAL

3494 SHEARWATER STREET
 NAPLES, FL 34117
 (239) 435-7200
 FAX (239) 435-7202

CITY OF MARCO
 PROPOSAL SUBMITTED TO:

September 5, 2019
 DATE

PROPOSAL #

50 Bald Eagle Dr
 STREET

Lou Gaudio
 SALES REPRESENTATIVE

Marco Island, Florida
 CITY, STATE, ZIP

S. Bahama Storm Pipe Replacement
 JOB NAME

Mike Daniel
 ATTN.:

Marco Island, Fl
 JOB LOCATION

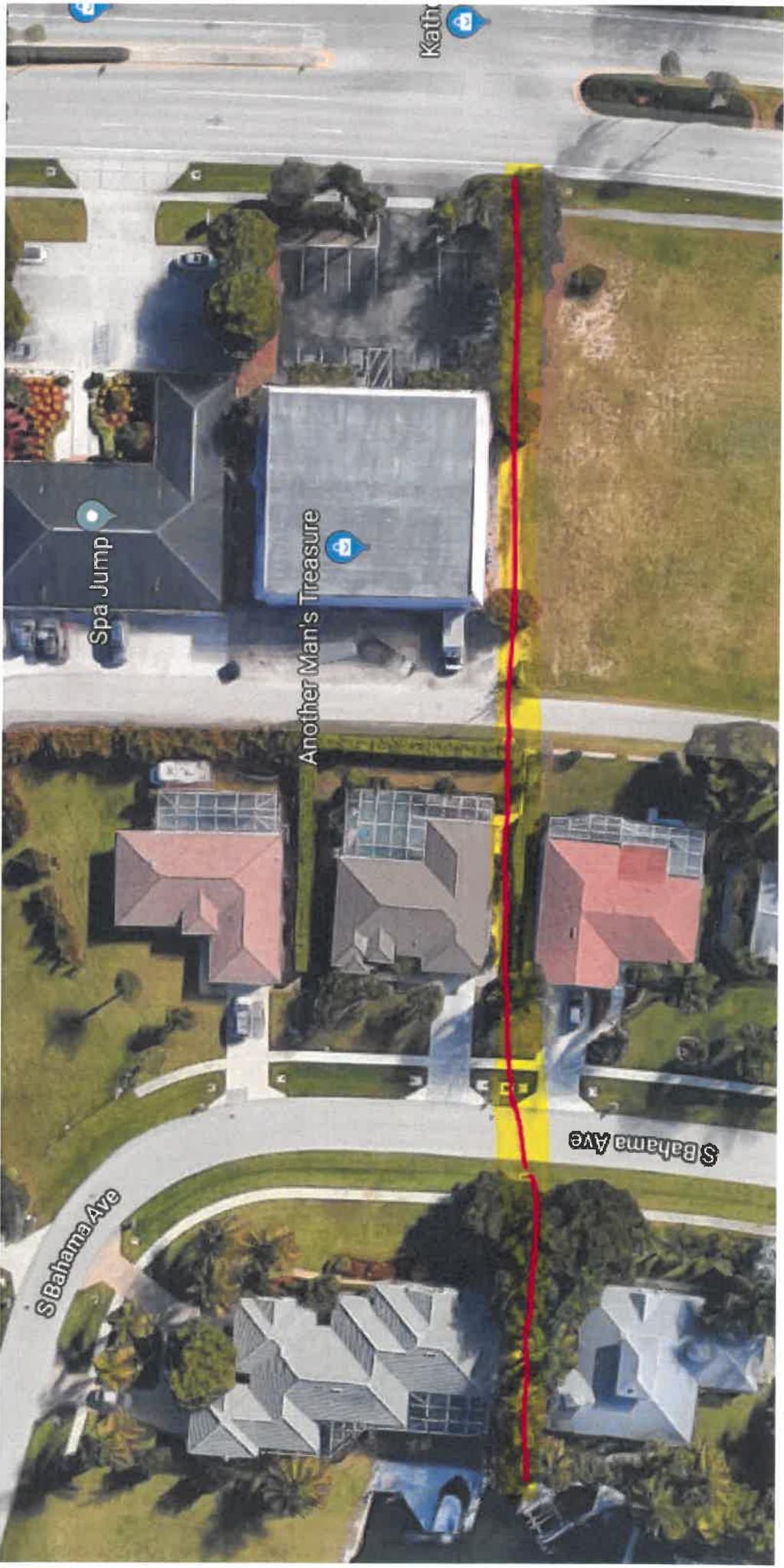
239-825-9554
 PHONE NO. FAX NO.

WE PROPOSE hereby to furnish all labor, materials, equipment and services necessary to complete the following:

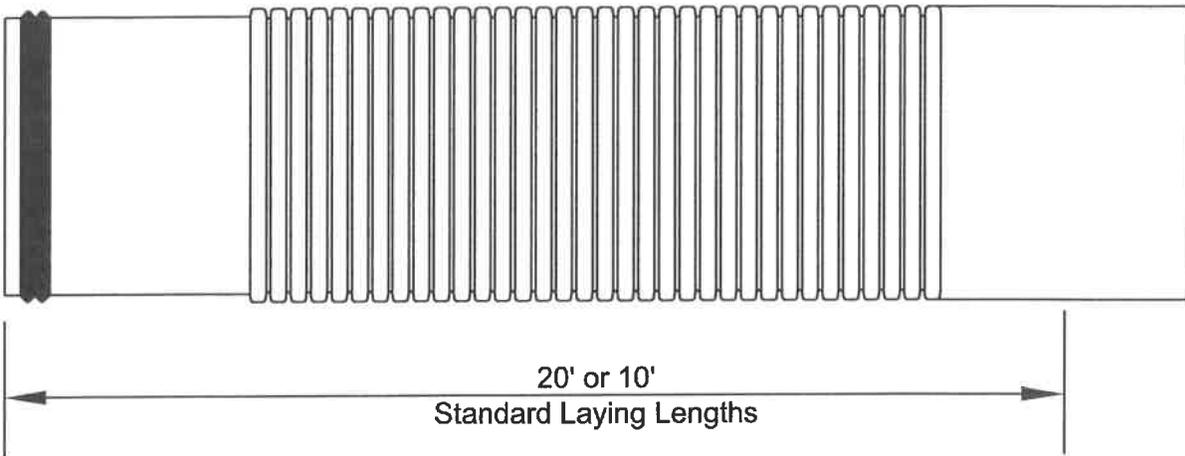
ITEM #	DESCRIPTION	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
1	Mobilization/Demobilization	1	LS	\$27,162.50	\$27,162.50
2	Pump System Down	1	LS	\$2,187.50	\$2,187.50
3	Remove Existing Structures	1	LS	\$4,375.00	\$4,375.00
4	Clear and Grub	1	LS	\$14,075.00	\$14,075.00
5	Install 24" Screw Pipe	1	LS	\$21,809.00	\$21,809.00
6	Install C Boxes - 4 ea	1	LS	\$23,750.00	\$23,750.00
7	Install 24" Plastic Pipe	1	LS	\$38,287.50	\$38,287.50
8	Connect to Existing	1	LS	\$2,187.50	\$2,187.50
9	Fill Annular Space on existing pipe	1	LS	\$3,375.00	\$3,375.00
10	New Plants	1	LS	\$6,250.00	\$6,250.00
11	Irrigation Repair	1	LS	\$1,250.00	\$1,250.00
12	Sod	1	LS	\$5,781.25	\$5,781.25
13	Pavement Restoration	1	LS	\$13,906.25	\$13,906.25
14	Sidewalk Replacements	1	LS	\$10,000.00	\$10,000.00
15	Restore Stone	1	LS	\$5,312.50	\$5,312.50
TOTAL:					\$179,709.00

 CUSTOMER - SIGNATURE & DATE

Louis J Gaudio 9/5/19
 QUALITY ENTERPRISES USA, INC. - SIGNATURE & DATE



A2 LINER PIPE



NOMINAL DIAMETERS (IN.)	AVERAGE O.D. (SPIGOT) (IN.)	AVERAGE I.D. (IN.)
12	12.8	11.7
15	15.7	14.3
18	19.2	17.6
21	22.6	20.7
24	25.6	23.5
27	28.9	26.4
30	32.2	29.5
36	38.7	35.5

SPECIFICATION

Scope:

This specification includes materials and test methods for 12 inch to 36 inch diameter polyvinyl chloride (PVC) reline pipe. The requirements of this specification are intended to provide pipe suitable for relining or sliplining existing sanitary sewers, storm sewers or drainage pipe.

Pipe:

PVC corrugated pipe with a smooth interior shall conform to the requirements of ASTM Designation F949 (latest revision). Pipe and fittings shall be homogeneous throughout and free from visible cracks, holes, foreign inclusions or other injurious defects. The pipe shall be made of PVC compound having a cell classification of 12454 as defined in ASTM Specification D1784.

Joints:

The pipe shall be connected with a PVC coupling utilizing elastomeric sealing gaskets. When joined, the coupling should not reduce the interior diameter while maintaining a constant outside diameter. The assembled joint shall meet the performance requirement of ASTM D3212 and shall remain watertight at 5° (degrees) angularity when tested in accordance with section 7.3. Elastomeric seals (gaskets) shall meet the requirements of ASTM F477.

ADS HP STORM 12”- 60” PIPE SPECIFICATION

Scope

This specification describes 12- through 60-inch (300 to 1500 mm) ADS HP Storm pipe for use in gravity-flow storm drainage applications.

Pipe Requirements

- 12- through 30-inch (300 to 750 mm) pipe shall have a smooth interior and annular exterior corrugations and meet or exceed ASTM F2736 and AASHTO M330
- 36- through 60-inch (900 to 1500 mm) pipe shall have a smooth interior and annular exterior corrugations and meet or exceed ASTM F2881 and AASHTO M330
- Manning’s “n” value for use in design shall be 0.012

Joint Performance

Pipe shall be joined with a gasketed integral bell & spigot joint meeting the requirements of ASTM F2736 or F2881, for the respective diameters.

12- through 60-inch (300 to 1500 mm) shall be watertight according to the requirements of ASTM D3212. Spigots shall have gaskets meeting the requirements of ASTM F477. Gasket shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

12- through 60-inch (300 to 1500 mm) diameters shall have a reinforced bell with a polymer composite band installed by the manufacturer.

Fittings

Fittings shall conform to ASTM F2736, ASTM F2881 and AASHTO M330, for the respective diameters. Bell & spigot connections shall utilize a spun-on, welded or integral bell and spigot with gaskets meeting ASTM F477. Bell & spigot fittings joint shall meet the watertight joint performance requirements of ASTM D3212. Corrugated couplings shall be split collar, engaging at least 2 full corrugations.

Field Pipe and Joint Performance

To assure watertightness, field performance verification may be accomplished by testing in accordance with ASTM F1417 or ASTM F2487. Appropriate safety precautions must be used when field-testing any pipe material. Contact the manufacturer for recommended leakage rates.

Material Properties

Polypropylene compound for pipe and fitting production shall be impact modified copolymer meeting the material requirements of ASTM F2736, Section 4, ASTM F2881, Section 5 and AASHTO M330, Section 6.1, for the respective diameters.

Installation

Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in traffic areas for 12- through 48-inch (300 to 1200 mm) diameters shall be one foot. (0.3 m) and for 60-inch (1500 mm) diameters, the minimum cover shall be 2 ft. (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1, Class 2 (minimum 90% SPD) or Class 3 (minimum 95%) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.04. Contact your local ADS representative or visit our website at www.ads-pipe.com for a copy of the latest installation guidelines.

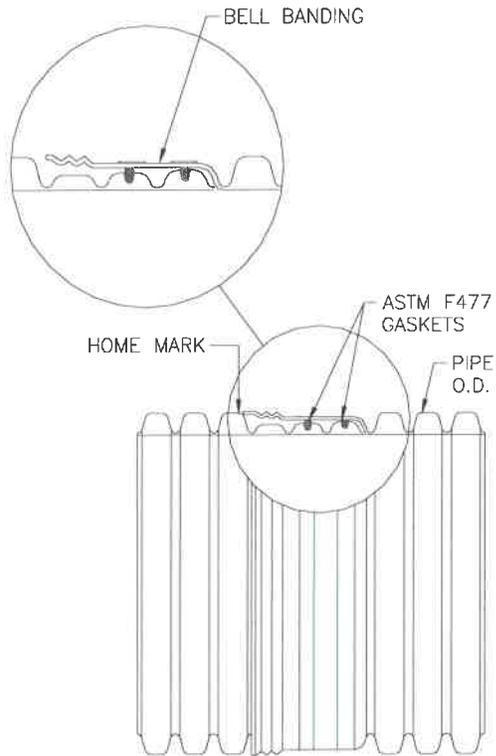
Pipe Dimensions

Nominal Pipe I.D. in (mm)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)	42 (1050)	48 (1200)	60 (1500)
Average Pipe I.D. In (mm)	12.1 (307)	14.9 (378)	18.0 (457)	24.1 (612)	30.1 (765)	35.7 (907)	41.8 (1062)	47.3 (1201)	59.3 (1508)
Average Pipe O.D. in (mm)	14.5 (368)	17.6 (447)	21.2 (538)	28.0 (711)	35.4 (899)	41.1 (1044)	47.2 (1199)	53.8 (1367)	66.5 (1689)
Minimum Pipe Stiffness * @ 5% Deflection* #/in./in. (kN/m ²)	75 (520)	60 (411)	56 (385)	50 (343)	46 (320)	40 (275)	35 (240)	35 (240)	30 (205)

* Minimum pipe stiffness values listed; contact a representative for maximum values

HP STORM 12" – 60" PIPE JOINT SYSTEM

(Joint configuration & availability subject to change without notice. Product detail may differ slightly from actual product appearance.)





HIP Storm