

TANGIPAHOA REGIONAL SOLID WASTE FACILITY
STORMWATER PUMPING SYSTEM
HDPE PIPE MATERIALS AND INSTALLATION

1. INTRODUCTION

This document presents the description of the materials, technical specifications, and drawings for installation of the HDPE piping as part of the stormwater pumping system of Tangipahoa Regional Solid Waste Facility. Drawing 1 presents the location and details of the pipeline to be installed.

2. STORMWATER PUMPING SYSTEM DESCRIPTION

The stormwater pumping system of the Tangipahoa Regional Solid Waste Facility will be utilized to pump the water from the North and South Holding Ponds (West side of Natalbany River) to the Borrow Area Pond (East side of the Natalbany River).

The pumping system shall be able to perform under three different conditions:

- 1- Pump from North Pond to Borrow Area Pond only.
- 2- Pump from North Pond to South Pond and from South Pond to Borrow Area Pond at the same time.
- 3- Pump from North Pond to Borrow Area Pond and from South Pond to Borrow Area Pond at the same time.

Pumps utilized will be DV-150i vacuum-assisted, self-priming, Rain for Rent model for the North Holding Pond. And similar to DV-80 (3" pump) for the South Holding Pond. I'll try to found out the exact pump model.

3. MATERIALS

The Contractor will be responsible for furnishing and installing the HDPE pipes, valves and fittings in accordance with this specification. Quote shall include the unit price as well as the total price (unit price multiplied by quantity) for each item specified by the Contractor. Quote shall include materials, labor, delivery, taxes, and all fees as applicable.

Pipes shall be 8-inch diameter, SDR-26 HDPE. All fittings (flange adapters, elbows, reducers, tees, lateral wyes, etc.) shall be SDR-11 HDPE. All HDPE pipes and fittings shall be installed by fusion welding. It is estimated that the total length of the pipeline will be approximately 3,160 ft as shown on Drawing 1.

Butterfly valves and flanged check valves shall be furnished and installed for the system to be able to operate under the three different conditions specified on Section 2 of this Descriptive Text.

4. INSTALLATION

Piping will be installed in trenches excavated by the Owner. Trench depths will be approximately 24 to 36 inches, depending on the location (36-inch deep trenches will be utilized at access road crossings). The Owner will also be responsible for backfill. The crossing over Natalbany River will be performed utilizing the existing bridge (see Drawing 1), to which the HDPE piping shall be attached.

The Contractor shall be responsible for positioning the pipes inside and at the center of the trenches or as directed by the Owner or Engineer. The Contractor shall also be responsible for welding pipes, fittings and installing valves in accordance with Sections 2 and 3.