AGENDA REQUEST FORM
City of Pembroke Pines, Florida

MEETING DATE
12-15-99

AGENDA ITEM NO.
32

TITLE: ENGINEERING MANUAL 2000

REQUESTED ACTION : MOTION TO ADOPT THE CITY OF PEMBROKE PINES STANDARD DETAILS AND PROCEDURAL MANUAL FOR THE DEPARTMENT OF PUBLIC SERVICES, ENGINEERING DIVISION.

SUMMARY EXPLANATION AND BACKGROUND:

1. The Engineering Division has revised and up-dated the Standard Details and Procedural Manual which is being used for design, construction and inspection of all engineering activities including paving, drainage, and water and sewer systems and landscaping within the public rights-of-way, dedicated easement and private property.
2. The manual is divided into four sections, a) General Procedures; b) Selected sections of the City Code of Ordinance relating to engineering and construction; c) Engineering Specifications; and d) Standard Details. This manual provides a comprehensive guidance and walkthrough for developers, engineers, contractors and City residents who want to be engaged in engineering or construction activity in the City.
3. The manual has been in use by the City for the last five years and is now revised and up-to-date to reflect the latest City code requirements and policies, industry standards and work practices. The City Engineer recommends its adoption by the City Commission to be effective January 1, 2000.

EXHIBITS : (LIST)

1. Draft of the Engineering Manual 2000.

PREPARED BY:

NAME: Taj Siddiqui

SOURCE OF ADDITIONAL INFORMATION

NAME: Taj Siddiqui - 435-6511

Submitted By:

Charles F. Dodge
City Manager

Taj Siddiqui
Director of Public Services

COMMISSION ACTION Motion Passed 12/15/99

City Clerk

IX. WET WELL MOUNTED WASTEWATER PUMPING STATION

A. GENERAL

1. Scope of Work

Furnish all labor, materials, equipment and incidentals required and install, place in operation, and field test a telemetry controlled wet well mounted wastewater pumping station and a emergency generator or bypass pump to provide emergency service to the pump station. The station shall be complete with pumps, motors, piping, valves, telemetry, electrical work (including motor controls), structures or connection and appurtenances, tested and ready for service. The generator or pump shall be trailer mounted, diesel powered sized to maintain the pump station flow. Refer to plans for other site features.

2. Description of System

a. The Contractor shall furnish and install one factory built, automatic pumping station as manufactured by Smith & Loveless, Inc., Lenexa, Kansas. The station shall be complete with all needed equipment, factory-installed on a welded steel base with fiberglass cover.

b. The principal items of equipment shall include two vertical, close-coupled, motor driven, vacuum primed, non-clog sewage pumps; valves; internal piping; central control panel with circuit breakers; motor starters and automatic pumping level controls; heater, ventilating blower; priming pumps and appurtenances; and all internal wiring.

c. Refer to plans for a complete list of operating conditions.

d. The pumping station shall pump raw, unscreened, domestic wastewater into a force main, which is pumped to a local manhole, or transmission system.

e. The remote telemetry unit shall include an enclosure with power supply, central processing unit, analog and digital outputs, radio, directional antenna and appurtenances and all wiring.

f. The Contractor shall furnish, at the City of Pembroke Pines discretion, either an emergency generator or emergency bypass pump. The generator shall be sized to meet the starting amperage of both pumps simultaneously. The bypass pump shall be a minimum six (6) inch self-priming pump. Either shall be diesel powered , trailer mounted with necessary towing equipment including, lights and hitch. The generator shall be supplied with necessary plug and cable for supplying power to the pump station control panel. The bypass pump shall be supplied with the necessary hoses and connections to provide bypassing of the pump station.