

UTILITIES BOARD OF THE CITY OF DAPHNE, ALABAMA

**APPLICATION FOR APPROVAL TO CONSTRUCT SANITARY SEWER
AND/OR WATER DISTRIBUTION FACILITIES AND/OR GAS FACILITIES**

I. GENERAL INFORMATION

Applications for approval to construct wastewater facilities and/or water distribution facilities and/or gas facilities within the City of Daphne, its planning jurisdiction, or the Utilities Board of the City of Daphne, Alabama service area shall be completed and submitted by the applicant to the Utilities Board of the City of Daphne for approval. Approved applications will be required for the Utilities Board of the City of Daphne to execute approvals for the Daphne Planning Commission for developments within the Daphne City limits and its planning jurisdiction.

Applications shall include the following general information items in addition to completion of Items II through VIII and conformance with the attached Division II - Design Criteria Provisions:

1. Project name and description of area served
2. Total area served, (Acres)
3. Estimated start of construction date
4. Estimated construction completion date
5. A map showing the design service area of the proposed utilities system(s)

II. APPLICANT

I, the undersigned, am fully aware that the statements made in this application for approval of wastewater and/or water facilities and/or gas facilities are true, correct and complete to the best of my knowledge.

_____	_____
Mailing Address	Signature of Applicant
_____	_____
Telephone No.	Name and Title
_____	_____
Date	Representing Owner/Company

III. ENGINEER

This is to certify that this application has been prepared under my direction and the plans and specifications for these wastewater and/or water facilities and/or gas facilities have been designed by me and are in conformance with sound engineering practices and the Utilities Board of the City of Daphne, Alabama requirements.

_____	_____
Mailing Address	Signature of Engineer
_____	_____
Company Name	Name and Title
_____	_____
Telephone Number	Alabama Registration Number

Date	

IV. CRITICAL ELEVATIONS FOR WASTEWATER FACILITIES

- A. Twenty-five (25) year flood
- B. Top of lowest manhole
- C. Invert of proposed pipe at each existing manhole connection
- D. Invert of existing manhole(s)
- E. Top of lift station structure
- F. Invert of lift station influent line(s)
- G. Pump(s) on
- H. Pump(s) off

V. QUANTIFICATION OF DESIGN FOR WASTEWATER FACILITIES

A. FLOW

		NO. OF UNITS	FLOW/UNIT (GPD)	ESTIMATED FLOW (GPD)
1.	Single Family Dwelling	@		
2.	Condominiums, Apartments	@		
3.	Swimming Pools	@		
4.	Motels	@		
5.	School	@		
6.	Commercial	@		
7.	Industrial	@		
8.	Other	@		

Average Daily Flow _____ GPD
Minimum Daily Flow _____ GPD
Peak Hourly Flow _____ GPM
Peak Daily Flow _____ MGD
Peaking Factor _____

B. GRAVITY SYSTEM

- 1. Pipe material
- 2. Pipe diameter (inches)
- 3. Minimum Slope (percentage)
- 4. Pipe velocity (cfs)
- 5. Minimum depth of cover (feet)

C. FORCE MAIN SYSTEM

1. Force Main
 - a. Pipe material
 - b. Pipe diameter (inches)
 - c. Minimum design flow velocity (fpls) in pipe
 - d. Minimum depth of cover (feet)

2. Head Conditions
 - a. Static head (feet)
 - b. Friction head (feet)
 - c. Total dynamic head (feet)

3. Wet-Well
 - a. Volume, (cf)
 - b. Min. detention time at peak hourly flow (minutes)
 - c. Time between pumps on (minutes)
 - d. Ventilation present
 - e. Strainer basket present

4. Pumps
 - a. Pump manufacturer/Model No.
 - b. Type of pumps
 - c. Number of pumps
 - d. Pump capacity
No. 1 _____ GPM @ _____ TDH; _____ HP
No. 2 _____ GPM @ _____ TDH; _____ HP
 - e. Pump controller
Manufacturer/Model No.
 - f. Flow totalizing capability present
 - g. Equipment weight
pump, lbs.
motor, lbs.

5. Electrical
 - a. Electrical panel layout
 - b. Voltage
 - c. Phase
 - d. Automatic restart capability
 - e. Alarm manufacturer/Model No.
 - f. SCADA system

6. Building
 - a. Interior 3/4" hose bibb present
 - b. Minimum unobstructed distance around equipment (feet)
 - c. Loading dock present
 - d. Overhead support beam present
 - e. Ventilator present

- f. Number of electrical receptacles
120 volt
230 volt
- g. Freeboard of curb (inches)
- h. Area of building (sf)

VI. CRITICAL ELEVATIONS FOR WATER FACILITIES

- A. Minimum elevation of three feet above the 100-year flood plain for all above ground structures
- B. Pumps (on)
- C. Pumps (off)

VII. QUANTIFICATION OF DESIGN FOR WATER FACILITIES

A. FLOW

The pumps shall have a rated capacity of _____ GPM when operating against a TDH of _____. The pumps shall also deliver not less than 150% of rated capacity at a pressure not less than 65% of rated pressure. Minimum suction pressure is _____ PSIG. Motor and pump speed shall not exceed _____ RPM. Pump pressure shut-off head shall not exceed 140% of rated pressure.

B. FLOW & PRESSURE DESIGN

- 1. Fire Flow _____ and pressure _____.
- 2. Minimum pressure _____ under fire flow demand.

C. Minimum main distribution pipe diameter _____ inches.

VIII. CRITICAL ELEVATIONS FOR GAS FACILITIES

- A. Minimum elevation of three feet above the 100-year flood plain for all above ground structures

IX. QUANTIFICATION OF DESIGN FOR GAS FACILITIES

- A. Minimum design pressure _____.

X. REQUIRED SUBMITTALS ATTACHED WITH THIS APPLICATION

- A. Drawings and specifications
- B. Site plan detailing area to be served
- C. Calculations
- D. Pump curves
- E. Building construction plans
- F. Permanent easement descriptions dedicated to Utilities Board of the City of

Daphne

1. Sanitary Sewer Mains or Water Mains or Gas Mains (Minimum twenty (20) feet width). If two utilities are installed, a minimum thirty (30) feet width shall be required.
 2. Pumping Stations for wastewater stations, water stations or gas compressor, metering and regulating stations (Minimum forty (40) feet. x forty (40) feet).
 3. Easements shall include proposed lines to fire hydrants that are submitted to the Utilities Board of the City of Daphne for acceptance.
- G. Flood verification certificates for facilities constructed within the 100 year flood plain.
- H. Statement that a pre construction conference will be held and that the Utilities Board of the City of Daphne will be notified of such meeting a minimum of forty-eight (48) working hours prior to date of meeting.
- I. Statement that upon completion of the project and prior to a final “walk through”, record drawings, all material testing documentation, O/M manuals, and necessary warranties and bonds shall be provided. Also, the Utilities Board of the City of Daphne shall receive a minimum of forty-eight (48) working hours notice of scheduled final “walk through”.
- J. If proposed development necessitates modifications to Daphne Utilities existing infrastructure, such modifications shall be submitted to Daphne Utilities for approval during design. Modifications may be necessary due to proposed changes to existing surface conditions. If modifications are approved, all costs associated with such modifications shall not be bore by Daphne Utilities but shall be bore by the Developer/Contractor including any necessary bypass pumping and all required testing such as Go-No-Go type mandrel, video, bacteriological, and air testing.

END OF SECTION