

HYDRAULIC DESIGN INFORMATION SHEET

Name: **SOLEIL CENTER - CONFERENCE**

Location: **4501 CREEDMOOR ROAD
RALEIGH, NC**

Building: **SOLEIL CONFERENCE CENTER**

Contractor: **ABL FIRE PROTECTION**

File Name: **Soleil 7th Floor.the**

Construction: Combustible Noncombustible

Occupancy: **FOOD PANTRY, STORAGE, COMMON AREAS**

AHJ:

Date: **November 16, 2007**

System No.: **7TH FLOOR**

Contract No.: **2698**

Drawing No.: **FP-23C**

Calculated by: **EJE**

Ceiling Height: **VARIES** ft

SYSTEM DESIGN

NFPA 13: Light Hazard Ordinary Hazard Group: 1 Extra Hazard Group:

Figure: _____ Curve: _____

Other (Specify):

Specific Rulling:

Made By: _____

Date: _____

Area of Sprinkler Operation: **1500** sqft
Density: **0.15** gpm/sqft

Area per Sprinkler: **130max** sqft

Hose Allowance Inside: _____ gpm

Hose Allowance Outside: **250** gpm

Rack Sprinkler Allowance: _____ gpm

System Type: Wet Dry Deluge Pre-Action

SPRINKLER or NOZZLE

Make: **VIKING**

Size: **1/2** in

Temperature Rating: **165** °F

Model: **VK-301 & CONCEALED**

K-factor: **5.6**

CALCULATION SUMMARY

Flow Required: **1,427.95** gpm Pressure Required: **82.40** psi At: **TEST/CONNECTION**

"C" Factor Used: Overhead: **120** Underground: **140**

WATER SUPPLY

WATER FLOW TEST

Date: **08-31-07**

Time: **12:00 pm**

Static: **106** psi

Residual: **92** psi

Flowing: **1470** gpm

Elevation: _____ ft

Location: **EXISTING HYDRANTS ON EDWARDS MILL ROAD**

Source of Information: **BASS, NIXON & KENNEDY, INC.**

PUMP DATA

Rated Capacity: _____ gpm

At: _____ psi

Elevation: _____ ft

TANK OR RESERVOIR

Capacity: _____ gals

Elevation: _____ ft

WELL

Proof Flow: _____ gpm

COMMODITY STORAGE

Commodity: _____

Storage Height: _____

Storage Method: Solid Pile: _____ %

Class: _____

Area: _____

Palletized: _____ %

Location: _____

Aisle Width: _____

Rack: _____ %

RACK STORAGE

Single Row

Conventional Pallet

Automatic Storage

Encapsulated

Double Row

Slave Pallet

Solid Shelving

Nonencapsulated

Multiple Row

Open

FLUE SPACING

Longitudinal: _____ in Transverse: _____ in

CLEARANCE FROM TOP OF STORAGE TO CEILING

ft _____ in _____

Horizontal Barriers Provided: _____