PART 1 - GENERAL

1.1 ACTION AND INFORMATIONAL SUBMITTALS

.1 Submit in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data:

.1 Submit manufacturer's instructions, printed product literature and data sheets for kitchen hood exhaust water wash panel, piping and nozzles and include product characteristics, performance criteria, physical size, finish and limitations.

.3 Shop Drawings:

.1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada.

.2 Indicate on drawings to indicate materials, and finishes, method of support and accessories for following kitchen hood exhaust water wash control panel, piping and nozzles..

.4 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.

.5 Instructions: submit manufacturer's installation instructions.

1.2 CLOSEOUT SUBMITTALS

.1 Submit in accordance with Section 01 78 00 - Closeout Submittals.

.2 Operation and Maintenance Data: submit operation and maintenance data for plumbing specialties and accessories for incorporation into manual.

.1 Description of plumbing specialties and accessories, giving manufacturers name, type, model, year and capacity.

.2 Details of operation, servicing and maintenance.

.3 Recommended spare parts list.

1.3 DELIVERY, STORAGE AND HANDLING

.1 Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

.2 Storage and Handling Requirements:
.1 Store materials indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
.2 Store and protect plumbing materials from nicks, scratches, and blemishes.
.3 Replace defective or damaged materials with new.

PART 2 - PRODUCTS

2.1 KITCHEN HOOD EXHAUST WATER WASH SYSTEM

.1 Description: The kitchen hood exhaust water wash system shall supply hot water and detergent to be dispersed from the kitchen hood spray nozzles to clean the hoods. The control panel shall also provide control the wash cycles, rooftop exhaust fan, and fire suppression system.

.2 Control Panel: panel shall be constructed from heavy gauge stainless steel with hinged lift doors and front locking screw. Panel to be surface mounted. The panel shall provide automatic operation on the exhaust fan in addition to run and wash cycles for the exhaust hood. The panel shall be complete with a separate electrical and plumbing compartment. The panel shall be provided with the following: run/wash cycle selection switch; wash timer; wash time delay; and a microprocessor for system running status and alarm conditions. Terminal switch shall be provided for field wiring. Panel to contain hand shut off valves; hot water solenoid valves; hot water pressure reducing valves complete with strainers; and pressure gauge. A detergent pump shall also be included with low level detergent alarm and 19L (5 gallon) detergent container. Entire panel to be completely factory pre-assembled, prewired and

2.1 KITCHEN HOOD EXHAUST WATER WASH SYSTEM (Cont'd)

.2 Control Panel:(Cont'd) tested ready for electrical and mechanical connections. Panel contains water supply and drainage connections.

.3 Piping: 25mm (1") Stainless Steel from control panel connection to nozzles. Stainless steel fittings and piping routing to match existing.

.4 Nozzles: nozzle type to match existing. Nozzle positioning to match existing setup.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and data sheet.

3.2 INSTALLATION

.1 Install in accordance with National Plumbing Code of Canada, provincial codes, and local authority having jurisdiction.

.2 Install in accordance with manufacturer's instructions and as specified.

3.3 KITCHEN HOOD EXHAUST WATER WASH SYSTEM

.1 Install control panel on wall (surface mount).

.2 Connect, drain piping and supply piping.

.3 Connect power to existing new piping and nozzles from panel.

3.4 START-UP

.1 Timing: start-up only after:
.1 Pressure tests have been completed.
.2 Disinfection procedures have been completed.
.3 Certificate of static completion has been issued.

.2 Provide continuous supervision during start-up.

3.5 TESTING AND ADJUSTING

.1 Timing:
.1 After start-up deficiencies rectified.
.2 After certificate of completion has been issued by authority having jurisdiction.

.2 Kitchen Hood Exhaust Water Wash System:
.1 Panel is powered up and all alarms and functions are operating properly.
.2 Control of exhaust fan is verified.
.3 Connection to fire suppression system is confirmed.

3.6 CLOSEOUT ACTIVITIES

.1 Commissioning Reports: in accordance with Section 01 91 13 - General Commissioning (Cx) Requirements: reports, supplemented as specified.

.2 Training: provide training in accordance with Section 01 91 13 - General Commissioning (Cx) Requirements: Training of O&M Personnel, supplemented as specified.

3.7 CLEANING

.1 Leave Work area clean at end of each day.

.2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.

3.8 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by plumbing specialties and accessories installation.

END