



HVAC &
CONTROLS
DESIGN
INSTALLATION
SERVICE

CENTRIX, LLC.
MIST COLLECTOR DUCTING INSTALLATION
AUBURN, WA
DESCRIPTIVE DESIGN PROPOSAL
1/9/2015

INSTALL KIRK & BLUM CLAMP-TOGETHER OIL MIST DUCTWORK, PER ERL SKETCH, AS FOLLOWS:

- 1. RE-USE ONE (1) EXISTING ABSOLENT MIST COLLECTOR UNIT (Assumed size 4,700 CFM).**
 - a) Equipment and ductwork sized by **Avani Environmental**
 - b) Motor starters and electrical hook-up by others.
 - c) It is ERL's assumption that the existing units are in operable condition.
 - i) No service or warranty work has been included in this proposal.
- 2. DUCTWORK** distribution designed by ERL and supplied by Avani Environmental.
 - a) Ductwork to be KB clamp-together components intended for Oil Mist
 - i) **All ducting components including pipe, clamps, elbows, sleeves, gaskets, transitions, dampers, adapters, and branch fittings are to be provided by Avani Environmental**
 - b) Ductwork hangers provided by ERL
- 3. ADAPTER PLATES** Twelve (12) 18 GA Sheet Metal Adapter Plates for existing CNC Mist Collector rectangular holes.
- 4. MECHANICAL DRAWINGS** by Avani Environmental
- 5. START-UP AND COMMISSIONING** By Avani Environmental.
 - a) Assitance provided by ERL.
- 6. ONE-YEAR PARTS AND LABOR WARRANTY** only on materials and equipment provided by ERL.
 - a) Warranty service provided by Evergreen technicians.
 - b) No warranty or service work on existing equipment, ductwork, or controls

CENTRIX, LLC.
DESCRIPTIVE DESIGN PROPOSAL - CONTINUED
Evergreen Refrigeration, LLC
1/9/2015

EXCLUSIONS:

- **Disconnection and removal of existing electrostatic mist collectors**
- **Prevailing wage labor rates or off hours labor rates**
- **Warranty or service work on existing equipment or controls**
- **All Ductwork & Transitions**
- **Mist collection equipment**
- **Low voltage wiring for Fire Gate System**
- **Assembly of Mist Collector Equipment**
- **Locating and anchoring of mist collectors**
- **VFD's or motor starters**
- **Drafting**
- **Permit fees and filing.**
- **Dampers and baffles to CNC machines.**
- **Hole cutting at CNC machines (to be provided by owner)**
- **Electrical hook up (ERL will attach VFD's supplied by others to machine)**
- **Equipment pads, access panels, screening, and/or safety rails**
- **Fire Dampers & fire/smoke dampers**
- **Line voltage electrical, starters, interlocks, disconnects and control conduit**
- **Drain piping and connections for coolant waste at bottom of machine**
- **Third party air balancing**
- **Structural and seismic calculations or modifications for units or ductwork**
- **Insurance coverage beyond \$3,000,000.00 individual, aggregate, etc. liability or bond**
- **Sales tax**

Note: A materials list is being provided by ERL with this quote. Avani is to deliver components as specified by ERL after approval of final layout & design.

A KB list price of \$ 14,750.00 should be used when accounting for KB ductwork. No ductwork is included in this proposal.

