PART 0 A/E INSTRUCTIONS

0.01 GENERAL DESIGN REQUIREMENTS

A. Architect shall contact Denver Fire Department on requirements for paint booths at the beginning of the project.

B. Architect shall coordinate with the DPS Project Manager the locations, sizes, and type of paint booths to be used. Typical areas of use are wood shop, and art classrooms.

C. Architect shall coordinate with the electrical engineer where such devices may require power operation. Life safety tie-ins shall also be coordinated.

D. Architect shall coordinate with mechanical engineer special venting requirements of the manufacturer and local codes.

E. Provide fire rated chases for plenums or adjacent floors when duct work travels through them. Use direct side wall discharge as much as possible to avoid penetrating floors for venting. Avoid where possible, penetration of fire rated assemblies.

F. Architect shall coordinate all booth, room and exhaust duct sprinkler requirements.

G. Paint booths may require a separate monitored sprinkler branch, with a bag protected head.

H. Place paint booths on floors or benches made of non-combustible materials.

I. Where a pit is required for filtration on automotive booths, architect shall coordinate with Structural engineer for foundation support requirements.

J. Architect shall locate paint booths mounted on work surfaces with proper floor and wall anchorage.

K. Provide at least three feet of clear space around unit.

L. No open flame shall be within twenty feet of a paint booth.

M. Coordinate the utilities required within or adjacent to paint booths. Compressed air shall be provided by compressor dedicated to providing process air. Temperature control air compressors shall not be used to supply paint booths.

PART 1 GENERAL

1.01 SUBMITTALS

A. Shop drawings and product data.

B. Operation and Maintenance manuals.

C. Provide as-built drawings of unit and venting system (both electronic and hard copy formats).

D. Special permits for flammable/combustible use by DFD.

PART 2 PRODUCTS

2.01 FABRICATION

A. All booths shall comply with all regulatory agencies having jurisdiction, including but not limited to: NEC, OSHA, NFPA, IBC and Denver Code requirements and be UL listed.

B. All booths to have a steel or concrete non-combustible floor.

C. All booths shall have the following interlocks:

1. Prevents spraying while drying
2. Ventilation system safe atmosphere and auto shut off drying when ventilation fails
3. Auto shut off drying if air temperature exceeds 160 degrees

D. All booth surfaces shall be smooth, continuous to facilitate cleaning and air movement.

2.02 MATERIALS

A. Self supporting 18 gauge galvanized steel panels .

B. Exhaust fans are of non-sparking construction. The motor drive and bearings are to be sealed from the air stream of the exhaust.

C. Filters - capture efficiency 99.6% down to 3 microns.- all UL Listed- using standard sizes.

D. Built-in overhead fluorescent lighting behind sealed clear tempered (explosion proof) safety glass - all UL listed.

E. Switch shall be covered and all wiring installed so as to be explosion proof.

F. Provide permanent signage that lists approved uses by the manufacturer, including no smoking sign.

G. Provide 100 LFPM face velocity minimum.

H. Line booths with fire resistant paper adhered with masking tape.

PART 3 EXECUTION

3.01 SPARE PARTS

A. Provide the following:

1. Replacement filters (one set)
2. One roll of fire resistant paper (Flame-A-Guard) as available from NAPA Auto Parts or other vendors

END OF SECTION 11500