SECTION 01600
MATERIAL AND EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes:

1. Products.
2. Transportation and handling.
3. Storage and protection.
4. Manufacturer's instructions.
5. Product options.
6. Products list.
7. Substitutions.
8. Systems demonstration.

B. Related Sections:

1. Section 01400 - Quality Control.
2. Section 01730 - Operating and Maintenance Data.

1.2 QUALITY ASSURANCE:

A. Conform to applicable specifications and standards.

B. Comply with size, make, type and quality specified, or as specifically approved in writing by the Architect.

C. Manufactured and Fabricated Products:

1. Two or more items of the same kind shall be identical, by the same manufacturer.

2. Equipment capacities, sizes and dimensions shown or specified shall be adhered to unless variations are specifically approved in writing.
1.3 TRANSPORTATION AND HANDLING:

A. Arrange deliveries of products in accord with construction schedules, coordinate to avoid conflict with work and conditions at the site.

B. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.

1.4 STORAGE AND PROTECTION:

A. Store products in accordance with manufacturer' instruction, with seals and labels intact and legible.

B. Arrange storage to provide access for inspection. Periodically inspect to assure products are undamaged, and are maintained under required conditions.

1.5 MANUFACTURER'S INSTRUCTIONS:

A. When Contract Documents require that installation of work shall comply with manufacturer's printed instructions, obtain and distribute copies of such instructions to parties involved in the installation, including one copy to the Architect and one copy to the Contractor.

B. Perform work in accord with manufacturer's instructions. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by the Contract Documents.

1.6 PRODUCT OPTIONS:

A. Products Specified by Reference Standards or by Description Only: Any product meeting those standards.

B. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not specifically named.

C. Consultant will review requests for substitutions with reasonable promptness, and notify, by Addendum, of the decision to accept or reject the requested substitution. **CONSULTANT/OWNER TO AGREE ON METHOD OF SUBSTITUTION APPROVAL PRIOR TO BID. AFTER BID, SUBSTITUTION WILL NOT BE CONSIDERED UNLESS BENEFIT TO OWNER IS DEMONSTRATED.**

1.7 PRODUCT LIST:

A. Within 15 days after signing of Agreement, submit complete list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
1.8 SUBSTITUTIONS:

A. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.

B. Request constitutes a representation that Subcontractor or Contractor:
   1. Has investigated proposed product and determined that it meets or exceeds, in all respects, specified products.
   2. Will provide the same warranty for substitution as for specified product.
   3. Will coordinate installation and make other changes which may be required for work to be complete in all respects.
   4. Waives claims for additional costs which may subsequently become apparent.

C. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals without separate written request, or when acceptance will require substantial revision of Contract Documents.

1.9 SYSTEMS DEMONSTRATION:

A. Prior to final inspection, demonstrate operation of each system to Architect and Owner.

B. Instruct Owner's personnel in operation, adjustment, and maintenance of equipment and systems, using the operation and maintenance data as the basis of instruction.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION 01600