



## **SECTION 01600**

### **MATERIAL AND EQUIPMENT**

#### **PART 1. GENERAL**

This section covers the transportation, handling, storage, and substitution of materials and equipment. Section 15101, "Material Handling, Storage and Transporting of Polyethylene Pipe," is hereby incorporated into this section by reference.

#### **PART 2. PRODUCTS**

New material, machinery, components, equipment, fixtures, and systems shall be used in forming the work. This does not include machinery and equipment used for preparation, fabrication, conveying, and erection of the work. Products may also include existing material or components required for reuse. Do not use materials and equipment removed from existing premises, except as specifically permitted by OWNER.

- 2.1 OWNER will furnish all materials for the electrical work performed under this Agreement unless otherwise specifically indicated in the Contract Documents. Material shall be picked up at the KUB Power Operations Center, 4505 Middlebrook Pike unless otherwise specifically indicated in the Contract Documents. CONTRACTOR shall furnish all other incidental material and all material as required for sitework construction, foundation construction, restoration of lawns, landscaping, pavement, curbs, sidewalks, etc., damaged or removed by CONTRACTOR during the performance of the Work.
- 2.2 When any CONTRACTOR vehicle assigned to do the Work leaves KUB grounds for any reason other than to travel to the Project site, all OWNER furnished material shall at the CONTRACTOR'S expense be unloaded before leaving and loaded upon return. Said OWNER furnished material shall be unloaded and stored at a location approved by the Manager of KUB Overhead Construction, or his representative.
- 2.3 It shall be CONTRACTOR'S responsibility to gather material in advance for the Work especially if CONTRACTOR is approved to work after normal storeroom hours of 7:00 AM to 3:30 PM Monday through Friday. To expedite the pickup of materials, CONTRACTOR must fax a list of materials required to (865) 558-2519 one-day prior to pickup. It is CONTRACTOR'S responsibility to send a written request to the Resident Project Representative if materials will be needed after normal working hours.

#### **PART 3. EXECUTION**

##### **3.1 TRANSPORTATION AND HANDLING**

- A. CONTRACTOR must provide an adequate number of personnel to load and secure OWNER supplied materials. OWNER'S personnel will not load or secure products for transport.
- B. Transport and handle products in accordance with manufacturer's instructions.
- C. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.
- D. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

### 3.2 STORAGE AND PROTECTION

- A. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible. Store sensitive products in weather-tight, climate controlled enclosures.
- B. For exterior storage of fabricated products, place above ground on supports that are sloped for drainage.
- C. Provide off-site storage and protection for materials. OWNER is not responsible for material storage or parking.
- D. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation.
- E. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- F. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- G. Arrange storage of products to permit access for inspection. Periodically inspect to assure products are undamaged and are maintained under specified conditions.

### 3.3 PRODUCT OPTIONS

- A. Products specified by reference standards or by description only: Any product meeting those standards or description.
- B. Products specified by naming one or more manufacturers: Products of manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products specified by naming one or more manufacturers with a provision for substitutions: Submit a request for substitution for any manufacturer not named.
- D. For similar components, provide interchangeable components of the same manufacturer.

### 3.4 SUBSTITUTIONS

- A. OWNER will consider requests for substitutions only within 15 days after date of OWNER-CONTRACTOR Agreement.
- B. Substitutions may be considered when a product becomes unavailable through no fault of CONTRACTOR.
- C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- D. A request constitutes a representation that CONTRACTOR:
  - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
  - 2. Will provide the same warranty for the substitution as for the specified product.
  - 3. Will coordinate installation and make changes to other work, which may be required for the work to be complete with no additional cost to OWNER.
  - 4. Waives claims for additional costs or time extension, which may subsequently become apparent.
  - 5. Will reimburse OWNER for review or redesign services associated with re-approval.
- E. 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 revision to the Contract Documents.
- F. Substitutions Submittal Procedure
  - 1. Submit three copies of request for Substitution for consideration in accordance with sections 00700 and 00800. Limit each request to one proposed substitution.
  - 2. Submit shop drawing, product data, and certified test results attesting to the proposed product equivalence.
  - 3. OWNER will notify CONTRACTOR, in writing, of decision to accept or reject request.

END OF SECTION