

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes requirements for temporary environmental controls, including control measures and quality control.

1.3 DEFINITIONS

- A. Permanent Enclosure: As determined by Architect, permanent or temporary roofing is complete, insulated, and weathertight; exterior walls are insulated and weathertight; and all openings are closed with permanent construction or substantial temporary closures.

1.4 SUBMITTALS

- A. Temporary Dust Barriers: Submit proposed barrier construction, and similar procedures performed on temporary barriers.
- B. Implementation Schedule: Within 15 days of date established for submittal of Contractor's Construction Schedule, submit a schedule indicating implementation of each temporary barrier.

1.5 QUALITY ASSURANCE

- A. Standards: Comply with SMACNA for IAQ Guideline for Occupied Building Under Construction dated November 1995.
 - 1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
 - 2. Electric Service: Comply with NECA, NEMA, and UL standards and regulations.
- B. The Owner will arrange and pay the costs for air testing.
- C. Maintain both mechanical equipment and existing building surfaces in reasonably sanitary conditions.
- D. Isolate significant emission sources from occupied areas.
- E. Conduct operations, and construction activities to minimize occupant exposure.
- F. Owner complaints shall be addressed by inspection of occupied areas and work areas by the construction manager and architect. Contractors shall be required to take necessary steps to clean and remove/stop construction activities which resulted in the complaint.

1.6 PROJECT CONDITIONS

- A. All dust and odor control measures shall be in place prior to commencement of construction activities.
- B. Install temporary dust barriers at locations indicated.
- C. Install local exhaust systems vented to the exterior in each work area.
- D. Use of products emitting odor and VOC's shall be prohibited during school hours.
- E. The work site shall not be left wet or damp for more than a day. Remove accumulated water and keep work area as dry as possible using dehumidification.
- F. Daily work site clean up with proper bagging and disposal of debris.
- G. Occupied corridors and rooms adjacent to work areas shall be inspected daily for dust. Visible airborne dust and dust settled shall be cleaned using a HEPA filter vacuum.
- H. Construction work resulting in excessive dust and odor may be rescheduled at the direction of the construction manager to times when the building is unoccupied.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Provide new materials. Undamaged, previously used materials in serviceable condition may be used if approved by Architect. Provide materials suitable for use intended.
- B. Lumber and Plywood: Comply with requirements in Division 6 Section "Carpentry."
- C. Gypsum Board: Minimum 1/2 inch thick by 48 inches wide by maximum available lengths; regular-type panels with tapered edges. Comply with ASTM C 36.
- D. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indices of 25 and 50, respectively.
- E. Tarpaulins: Fire-resistive labeled with flame-spread rating of 15 or less.
- F. Water: Potable.

2.2 EQUIPMENT

- A. General: Provide equipment suitable for use intended.
- B. Portable exhaust fans ducted to work areas.
- C. Portable dehumidification units.
- D. HEPA filtered vacuum cleaners.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required.
- B. Provide each facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects. Avoid using tools and equipment that produce harmful noise. Restrict use of noisemaking tools and equipment to hours that will minimize complaints from persons or firms near Project site.
- B. Barricades, Warning Signs, and Lights: Comply with standards and code requirements for erecting structurally adequate barricades. Paint with appropriate colors, graphics, and warning signs to inform personnel and public of possible hazard. Where appropriate and needed, provide lighting, including flashing red or amber lights.
- C. Temporary Partitions: Erect and maintain dustproof partitions and temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.
 - 1. Construct dustproof partitions of not less than nominal 4-inch studs, 5/8-inch gypsum wallboard with joints taped on occupied side, and 1/2-inch fire-retardant plywood on construction side.
 - 2. Insulate partitions to provide noise protection to occupied areas.
 - 3. Seal joints and perimeter. Equip partitions with dustproof doors and security locks.
 - 4. Protect air-handling equipment.
 - 5. Weatherstrip openings.

3.3 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary environmental controls
- B. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
- C. Filtration: The contractor shall replace all mechanical system filtration media when the project reaches substantial completion.

END OF SECTION 001510