SECTION 015000
TEMPORARY FACILITIES AND CONTROLS

PART 1  GENERAL

1.01  GENERAL REQUIREMENTS

A.  PART A and DIVISION 1 of PART B are hereby made a part of this SECTION.

B.  Examine all conditions as they exist at the project prior to submitting a bid for the work of this SECTION.

C.  The Contractor shall be responsible for providing and maintaining all temporary facilities until Substantial Completion. Removal of such prior to Substantial Completion must be with the concurrence of the Architect. The Contractor bears full responsibility for re-providing any facility removed prior to Substantial Completion if required for the Work.

D.  Removal of all temporary facilities shall be condition precedent to Substantial Completion unless directed otherwise by the Architect or specifically noted in the Specifications.

1.02  TEMPORARY WATER

A.  The General Contractor shall provide and maintain at his own expense an adequate supply of water for his own use and the use of all Subcontractors during construction.

B.  Water shall be distributed by temporary hoses or pipelines as required for all construction uses and fire protection.

C.  When the permanent water distribution system has been installed, it may be used as a source of water for construction purposes, provided that the Contractor (1) assumes full responsibility for the entire water distribution system; and (2) pays all costs for operation, maintenance and restoration of the system.

D.  Any temporary pipe lines and connections from the permanent service line, either outside or within the building, necessary for the use of the General Contractor and his subcontractors shall be installed, protected and maintained at the expense of the General Contractor.

E.  General Contractor shall provide an adequate supply of cool drinking water, from approved sources of acceptable quality, satisfactorily cooled, for his employees and those of his subcontractors. Individual drinking cups shall be provided for all personnel on the job.

F.  At the completion of this contract, or when use of the permanent system for construction purposes is approved, the General Contractor shall remove all of the temporary water distribution system.
G. Use of the permanent plumbing system for construction purposes is subject to the limitations noted in SECTION 220001-PLUMBING. In no case does it constitute acceptance by the Owner or the start of the Guarantee period.

1.03 WEATHER PROTECTION

A. It is the intent of these specifications to require the General Contractor to provide temporary enclosures and heat to permit construction work to be carried on during the months of November through March in compliance with MGL 149, Section 44D (G). These specifications are not be construed as requiring enclosures or heat for operations that are economically unfeasible to protect in the judgment of the Architect. Included in this category, without limitation, are such items as Site Work, Excavation, Pile Driving, Steel Erection, Erection of certain exterior wall panels, Roofing and similar operations.

B. "Weather Protection" shall mean the temporary protection of that work adversely affected by moisture, wind and cold, by covering, enclosing and/or heating. This protection shall provide adequate working areas during the months of November through March as determined by the Architect and consistent with the approved construction schedule to permit the continuous progress of all work necessary to maintain an orderly and efficient sequence of construction operations. The General Contractor shall furnish and install all "weather protection" material and be responsible for all costs required to maintain a minimum temperature of 40 degrees F. at the working surface. This provision does not supersede any specific requirements for methods of construction, curing of materials or the applicable general conditions set forth in the Contract Articles with added regard to performance obligations of the Contractor.

C. Within 30 calendar days after his award contract, the General Contractor shall submit in writing to the Architect for approval three (3) copies of his proposed methods for "Weather Protection."

D. Installation of weather protection and heating devices shall comply with all safety regulations including provisions for adequate ventilation and fire protection devices. Heating devices which may cause damage to finish surface shall not be used.

E. Responsibility for Weather Protection

1. The entire responsibility for weather protection during construction until Substantial Completion, shall be assumed by the Contractor, who shall be liable for any damage to any work caused by his failure to supply proper weather protection and proper ventilation as required.

2. Any work damaged by frost shall be removed and replaced by the Contractor at his own expense and as directed by the Architect.
3. It is to be specifically understood that the Contractor shall do no work at any time or under any conditions which he deems unsuited to the perfect execution of the Work. This provision shall not be interpreted as constituting any waiver, release or lessening of the Contractor's obligation to bring the Work to Substantial Completion within the period of time set forth in the Agreement.

1.04 HEATING DURING CONSTRUCTION

A. Within thirty (30) calendar days after the commencement of work under this contract, the General Contractor shall submit in writing to the Architect for approval, three copies of this method and time schedule for heating during construction which shall occur with this general program schedule.

B. After the building or portion thereof is completely enclosed by either permanent construction of substantial temporary materials having comparable resistance as the specified permanent construction, the General Contractor shall provide heat therein of not less that 65 degrees F. nor more than 75 degrees F. which shall be continuously maintained in the so enclosed area until the project is accepted.

C. The General Contractor shall furnish and install one accurate recording Fahrenheit thermometer at a place designated by the Architect, and one additional accurate high/low thermometer for every 2,000 square feet of floor space, located as directed by the Architect in order to determine if the specified temperatures are maintained. The General Contractor or his authorized agent shall furnish daily to the Architect three (3) copies of a signed statement of temperatures recorded every three (3) hours.

D. Permanent Heating System: The General Contractor, may, with the approval of the Architect and Owner elect to use the permanent heating system as specified for the project once it has been tested, flushed out and chemically treated and is ready to operate. The General Contractor and the Heating and/or Electrical Subcontractor shall coordinate their work so that the permanent heating system for the building will be available and ready to provide heat as soon as the building is closed in. Use of the permanent heating system and portions thereof is subject to provisions specified elsewhere in this document and the following:

1. The Contractor shall pay the costs of all fuel and electricity required for temporary heating until Substantial completion. Where the permanent system serves both Owner and Contractor controlled areas, costs shall be proportional as specified above.

2. The Contractor shall furnish and pay the costs of any materials and equipment which are not part of the permanent heating system and which may be required to operate the permanent heating system on a temporary basis.

3. The Heating Subcontractor shall be in charge of and provide all labor required for the operation and final restoration of the permanent heating system if used for temporary heating purposes.
4. The Contractor shall reimburse the Heating Subcontractor to operate any portion of the permanent heating system used for temporary heating until Substantial Completion.

5. The Contractor shall reimburse the HVAC Subcontractor for the final cleaning and for any repairs or replacements necessary to restore the permanent heating system to perfect condition at the time of Substantial Completion.

6. No parts of the air handling system shall be used until temporary filters have been installed satisfactory to the Architect. Such filter shall be kept clean and in efficient working condition, and at the time of Substantial Completion shall be replaced by the permanent filters.

7. Guarantees to the Owner for the permanent heating system begin from the time of Substantial Completion of the project, not the time that temporary use of the system begins.

E. Operating labor shall be provided, including frequent inspection of the system, emergency repairs and keeping temperature records. The General Contractor shall pay all energy and operating costs for heating during construction. "Salamanders" shall not be used.

1.05 TEMPORARY LIGHT AND POWER

A. The Electrical Subcontractor shall, at his own expense, make all arrangements for and provide all temporary light and power, except as otherwise specified. The temporary electrical service shall include but not be limited to all labor, materials, and equipment necessary to supply temporary power of adequate capacity for the project operations and testing. Transformers and meters, when required by the power company, will be furnished and installed by the appropriate power company and the Electrical Subcontractor shall pay all costs therefore. No connection shall be made to the Owner's power supply.

B. All temporary electrical work shall be performed under the direct supervision of at least one master electrician, who will be present on the project at all times when such work is being performed.

C. Temporary lighting and power shall be not less than the following:

1. Lighting - 200 watts per 100 square feet of floor area, plus 60 watts for each stair landing.

2. Receptacles - At least one 20 ampere duplex for each 1,000 square feet of floor space, and such others as will accommodate extension cords not greater than 50 feet in length to reach all work.
3. Fused switches for special construction equipment - On each floor of each building, at least one 30 ampere, 2 pole fused switch for equipment connection. Cables, and connection from switch to the special equipment, shall be provided, maintained and paid for by the trade requiring same.

4. Feeders - On each floor of each building, a feeder or feeders of sufficient capacity for the requirements of each entire floor. 1.05

D. The General Contractor shall pay the cost of electrical energy consumed by all trades until Substantial Completion.

E. The General Contractor at his own expense, shall maintain all lamps in operating condition. The General Contractor, and each Subcontractor, shall furnish their own extension cords and all additional lamps as may be required for their work. Temporary work of a special nature, not otherwise specified thereunder, shall be provided, maintained and paid for by the trade requiring same.

F. All lamps installed in permanent lighting fixtures and used as temporary lights during the construction period shall be removed and replaced shortly before Substantial Completion by the set of lamps required to be provided under SECTION 260001-ELECTRICAL.

G. All temporary work shall be provided in conformity with the National Electrical Code and in accordance with State laws, and requirements of the applicable power company. Particular attention is called to the Commonwealth of Massachusetts "Rules and Regulations for the Prevention of Accidents in Construction Operations", Industrial Bulletin No. 12 of Department of Labor and Industry. Division of Industrial Safety with specific reference to Section 4, Item 4.26 and Section 7 in its entirety.

H. The Electrical Subcontractor shall dismantle and completely remove from the project site all temporary electrical facilities only when the permanent electrical system has been installed and is in operation.

1.06 HOISTING EQUIPMENT AND MACHINERY

A. All hoisting equipment and machinery required for the proper and expeditious prosecution and progress of the work shall be provided by the trade requiring same.

1.07 TEMPORARY ENCLOSURES

A. The Contractor shall provide approved temporary enclosures for all exterior openings, as soon as the building is enclosed and otherwise made weathertight, or whenever necessary in order to provide suitable working conditions within the building. For this purpose the permanent window enclosures may be utilized, except that a least one-quarter (1/4) of each window area in each space shall be provided with temporary non-flammable cloth screen to permit the exit of water vapor from the building at all times, or shall be otherwise equipped to effect the same result. The permanent door enclosures shall not be used as temporary enclosures, but temporary batten doors with proper hardware to make them self closing shall be provided, complete with a locking device.
1.08 **STAGING**

A. Except as otherwise specified in the specification Sections, the Contractor shall furnish, install, maintain in safe condition, and remove all scaffolds, staging and planking over 8 feet in height, as required for the proper execution of the Work.

B. The Contractor shall furnish, install, maintain, and remove all temporary ramps, stairs, ladders and similar items as required for the use of all trades for proper execution of their Work.

C. Permanent stairs shall be erected as soon as possible, for which the Contractor shall provide temporary protective treads, risers, handrails and shaft protection.

1.09 **BARRIERS**

A. Fences

1. The Contractor shall be responsible for providing temporary fencing or barricades around the site and as otherwise may be necessary, to assure the safety of all persons, authorized or unauthorized. Such protective measures shall be located and constructed as required by local, state and federal ordinances, laws or regulations. Any such fencing or barricade shall be maintained in an orderly condition. Existing fencing may be utilized by the Contractor as a portion of the construction fencing.

2. Unless otherwise specified, construction fence shall be six feet high and of chain link or other approved construction, erected in a substantial manner, straight, plumb and true as approved by the Architect.

3. Gates shall be built into fence at such approved locations as are necessary, well cross-braced and hung on heavy strap hinges with proper post and hook for double gates. Provide heavy hasps and padlocks for each gate. Provide keys to Owner and to Police and Fire Departments to facilitate emergency access.

4. Temporary fencing shall be removed at such time before final completion as the Architect directs. Restore site to acceptable condition after removing fence.

B. Tree and Plant Protection

1. Existing trees and shrubs which are to remain shall at all times be carefully preserved and protected against any possible injury during the process of the work.

2. The trunk and exposed roots of trees within the area of operations shall be thoroughly protected with suitable temporary guards and barriers and the branches shall not be injured by the operation of power equipment or other material devices.

3. Refer to SECTION 311320-EXISTING PLANTS TO REMAIN for additional requirements.
C. Guard Rails

1. Furnish and maintain all necessary guard rails, barriers and the like as required for safety of personnel in the building, on the site, and public.

2. All such safety barriers shall be removed upon completion of this contract. Should the work be suspended, such safety barriers shall remain in place, and become the property of the Owner.

D. Siltation Control Barriers

1. Prior to the commencement of any site work, temporary siltation control barriers shall be installed as shown on the Drawings, and specified under SECTION 311000-SITE PREPARATION and SECTION 312000-EARTHWORK.

2. Siltation control barriers must be maintained until final acceptance of sitework, at which time they shall be removed at the Contractor's expense.

3. Refer to the Order of Conditions issued by the DOUGLAS CONSERVATION COMMISSION which are part of these contract documents.

1.10 TEMPORARY PARTITIONS

A. Not used.

1.11 ACCESS ROADS

A. All temporary site access shall be in full compliance with all applicable state and local regulations including TOWN OF DOUGLAS requirements. Access to the site shall be as indicated on the Phasing Drawing for various stages of the work.

1.12 SPECIAL CONTROLS

A. Dust controls should effectively seal off existing areas that remain in use by the school during construction, to maintain a clean and healthy environment in accordance with all applicable codes and standards. All contractor-controlled areas shall be under negative pressure.

B. Water controls, such as temporary swales or sumps, should effectively protect areas during construction until such time as the permanent storm water drainage system is completed and operational. Refer to the Contract Drawings for additional information regarding storm water control.

C. By state law, smoking is not allowed on school property including those areas under construction.

D. Public streets and roadways shall be kept clean of dirt tracked by construction vehicles entering and leaving the site.
1.13 **TRAFFIC REGULATIONS**

A. Contractor parking and staging areas are limited to on-site areas. On-street parking shall not be allowed.

1.14 **PROJECT SIGN**

A. The General Contractor shall furnish and install one (1) project sign 4’ x 8’ in dimension. Sign shall be fabricated from one inch thick medium density overlaid exterior plywood laminated with waterproof glues. All edges of sign shall be banded with 1” x 1/2” pine banding. Sign shall be supported by three 4x4 post supports set in 12” diameter concrete footings to a depth of four (4) feet and so that sign is raised a minimum of three (3) feet above grade. (Note: Alternative methods of support may be required by site conditions and will be approved by the Architect.) All nails, nuts, bolts and other connecting hardware to be galvanized.

B. Sign shall be lettered by a professional sign painter, in accordance with a drawing prepared by the Architect.

C. The Architect will make available a Macintosh based computer disk of the sign layout for the Contractor’s use.

D. The Contractor shall submit a scaled drawing for the proposal sign for approval by the Architect prior to fabricating.

E. No other signs or advertisements will be allowed to be displayed without the approval of the Architect.

F. The Contractor shall obtain approval of local authorities for erection of signs.

1.15 **ROOF PROTECTION**

A. During the construction period after the installation of the roofing system as specified under Roofing and Flashing, the General Contractor shall take strict precautions against unnecessary traffic on the roof surface.

B. After the satisfactory completion of all roofing and flashing work, the General Contractor shall be responsible for damages to the roof caused by work or materials of the other trades.

1.16 **DISPOSAL OF DEBRIS**

A. Debris shall not be permitted to accumulate and the work shall at all times be kept satisfactorily clean.

B. Remove debris from site in accordance with the time specified in SECTION 311000-SITE PREPARATION.
C. The General Contractor shall require each of his Subcontractors engaged upon the work to bear his full responsibility for cleaning up during and immediately upon completion of his work, and shall remove all rubbish, waste, tools, equipment, and appurtenances caused by and used in the execution of his work; but this shall in no way be construed to relieve the General Contractor of his primary responsibility for maintaining the building and site clean and free of debris, leaving all work in a clean and proper condition satisfactory to the Architect and/or Owner. **The General Contractor shall be responsible for and pay all costs related to furnishing the required construction dumpsters at the site and legal disposal of all construction debris.**

D. The General Contractor shall provide at least one tightly built chute, serving each floor, which shall lead down to angle offset and a gate at a convenient loading point for trucks or wagons.

E. At no time shall any rubbish be thrown from the windows of the building.

F. Immediately after unpacking, all packing materials, case lumber, excelsior, wrapping, or other rubbish, flammable or otherwise, shall be collected and removed from the building and premises.

1.17 **TEMPORARY OFFICES**

A. The Contractor shall provide a suitable office at the site for his own use.

B. In addition the Contractor shall provide an office space of not less than 600 sq. ft. in the area for the use of the Owner’s Project Manager. It shall have 1 large office for conferences, 1 smaller office for the Owner’s Project Manager, 1 wardrobe closet, and be equipped with at least the following:

- 1 - Desk, 5 ft. wide
- 1 - 4 drawer, steel file cabinet with lock and key
- 1 - Plan table, at least 3 ft. by 7 ft.
- 1 - Plan rack
- 2 - Overhead shelves 7 ft. long
- 8 - Chairs
- 1 - Heat and light
- 1 - Air conditioner
- 1 - Computer Work Station to include
  - Computer – 800 MHZ Pentium 3 PC or 400 MHZ Macintosh G4, 20 GB min, ATA 66 hard drive.
  - 17 inch color monitor
  - Inkjet or laser printer capable of 11x17 format.
  - Modem V.90/56k (or better) – Fax capable with fax software.
  - Email software and Email account (Cost of service by contractor).
  - Digital Camera and related hardware/software to download to computer.
  - Programs – Microsoft Office including Excel, Word, Powerpoint, Filmaker, Zip compression software.
  - Internet access (AOL or other account, cost of service by contractor).
3 - First class outdoor thermometers (maximum/minimum)
1 - Waste basket
1 - Water cooler
1 - Telephone (costs of services and message units shall be the responsibility of the Contractor).
1 - A wireless telephone, the cost of services and message units shall be the responsibility of the Contractor.
1 - Telephone facsimile machine
1 - Answering machine
1 - Copier (fax machine copy function does not meet this requirement)

C. The office shall be set in location approved by the Architect, and shall be maintained by the Contractor in a clean and orderly condition.

D. After enclosed and heated building space becomes available, the Contractor may move the offices (including telephones) into the building. Space so used shall be subject to approval by the Architect.

1.18 TEMPORARY TOILETS

A. The Contractor shall provide and service an adequate number of toilet booths with chemical type toilets.

B. The toilets shall be erected in location approved by the Architect and shall be maintained by the Contractor in a clean and orderly condition in compliance with all local and state health requirements.

C. When the permanent sanitary system is in operating condition, the Contractor may use portions of the system as approved by the Architect, provided that the Contractor (1) assumes full responsibility for the so used portions of the sanitary system, and (2) pays all costs for operation, maintenance, cleaning, and restoration of the used portions.

1.19 TEMPORARY TELEPHONE

A. The General Contractor shall make all necessary arrangements with New England Telephone and pay all costs for the installation and operating costs of a telephone in the temporary office for his own use and that of the Clerk of Works. A separate telephone for use by subcontractors may be a coin type, at the General Contractor's option. All calls, made on this phone, shall be paid for by the General Contractor or the Subcontractor, as applicable.

B. The General Contractor shall make all necessary arrangements and pay all cost for providing the Contractor's superintendent and the Clerk of Works each with a wireless telephone with compatible service to facilitate communications between them, both on site and off-site.

1.20 PROTECTION OF PERSONS AND PROPERTY

A. The General Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work.
B. The General Contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury or loss to:

1. All employees on the Work and all other persons who may be affected thereby.

2. All the Work and all materials and equipment to be incorporated therein, whether in storage on or off the site, under the care, custody or control of the Contractor or any of his Subcontractors or Sub-subcontractors.

3. Any other property at the site or adjacent thereto, including (but not limited to) equipment, existing construction to remain, trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of the Work. Restore to original condition or replace any property on and/or off the site which may be damaged or destroyed in the execution of the Work.

C. The General and Subcontractors shall comply with (and the General Contractor shall give all notices regarding) all applicable laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the safety of persons or property of their protection from damage, injury or loss.

D. The General Contractor shall erect and maintain, as required by existing conditions and progress of Work, all reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying Owners and users of adjacent utilities.

E. When the use of storage of explosives or other hazardous materials or equipment is necessary for the execution of the Work, the Contractor shall exercise the utmost care and shall carry on such activities under the supervision of properly qualified personnel.

F. The General Contractor shall designate a responsible member of his organization at the site, whose duty shall be the prevention of accidents. This person shall be the General Contractor's superintendent unless otherwise designated by the General Contractor in writing to the Architect.

G. The General Contractor shall not load or permit any part of the Work to be loaded so as to endanger its safety.

H. In any emergency affecting the safety of persons or property, the General Contractor shall act, at his discretion, to prevent threatened damage, injury or loss. Any additional compensation or extension of time claimed by the General Contractor on account of emergency work shall be determined as provided in the General Conditions for Change in Contract and Methods of Preparation of Changes.

I. Water protection: Always protect excavation, trenches, buildings from damage from rain water, spring water, ground water, backing-up of drains or sewers, and other waters. Provide pumps, equipment, enclosures as required to provide this protection. Construct, maintain temporary drainage; do pumping necessary to keep excavation water free.
J. Remove snow and ice as necessary for safety and proper execution of work. Remove same when work is completed.

K. Provide constant protection against the weather as required to maintain work, materials, apparatus, fixtures, free from injury or damage. If low temperatures make it impossible to continue operations, cease work, notify Architect.

L. Shore, brace, enclose and otherwise protect, as required, existing buildings from damage during course of work.

1.21 PROTECTION OF CARPETED SURFACES

A. Upon the completion of the carpet installation, the General Contractor shall cover all carpeting with heavy non-staining craft paper, taped and sealed at all edges, and shall maintain such protection until project completion.

1.22 TEMPORARY PROTECTION

A. The General Contractor shall provide weathertight enclosures for all exterior openings in building whenever the weather is such as to require same for protection against frost or heat, for drying out of plaster, or for suitable working conditions within the building before permanent doors and windows are installed.

B. The Contractor shall:

1. Protect excavations, trenches, building and materials at all times from rain water, ground water, backing-up or leakage of sewers, drains or other piping and from water damage of any origin: provide all pumps, piping, coverings, and other materials and equipment as required by job conditions. (Refer also to SECTION 312000-EARTHWORK).

2. In addition to the weather protection during the months of November through March specified thereunder, provide temporary weathertight enclosures for openings in exterior walls and in roof decks when and as required to protect the Work from damage by inclement weather. Temporary enclosures shall be provided with adequate means of ventilation to prevent accumulation of moisture in the building.

3. Provide temporary wood doors for exterior entrances and elsewhere as required. Permanent door enclosures shall not be used as temporary enclosures.

4. Protect sills, jams and heads of openings through which materials are handled.

5. Protect decks and slabs to receive Work by other trades from any soiling which will prevent proper adhesion of subsequent work. Decks and slabs shall be left clean and free of all blemishes at the time other Trades begin the application of their work.
6. Protect concrete slabs to remain exposed and finished floor against mechanical damage, plaster droppings, oil, grease, paint or other materials which will stain the floor finish. Install and maintain adequate strips of building paper or other protection on finished floors in rooms where further work will be done by other Trades.

C. Roof surfaces and waterproofed surfaces shall not be subjected to traffic nor shall they be used for storage of materials. Where some activity must take place in order to carry out the work, adequate protection shall be provided.

D. After the installation of work by any Subcontractor is properly completed, the Contractor shall be responsible for its protection and for repairing, replacing or cleaning any such work which has been damaged by other Trades or by any other cause, so that all Work is in perfect condition at the time of Substantial Completion.

E. All temporary protection and coverings shall be removed by the General Contractor at the completion of the work.

1.23 FIRE PROTECTION AND PREVENTION

A. Provide and maintain fire protection in form of barrels of water with buckets, fire bucket tanks, fire extinguishers, or other effective means of fire extinguishment, ready for instant use, distributed around the project and in and about temporary inflammable structures during construction of work.

B. Flammable liquids shall be stored in, and dispensed from U.L. listed safety containers in conformance with National Board of Fire Underwriter's recommendations in appropriate storage areas outside of the buildings.

C. The General Contractor shall furnish sufficient hose to provide adequate fire fighting coverage of all levels of the new structures.

D. The General Contractor shall keep building and site free of rubbish and debris.

1. Provide metal barrels properly located on each floor into which all luncheon refuse shall be deposited. All such barrels shall have tight fitting covers.

2. At the end of each work week, thoroughly clean the buildings and premises of rubbish and debris of any nature, and remove from the premises.

E. Make arrangements for periodic inspection of local fire protection authorities and insurance underwriters’ inspections. Cooperate with said authorities and promptly carry out their recommendations. Comply with all applicable laws and ordinances and with Owner's fire prevention requirements.

F. Tarpaulins that may be used during construction of work shall be made of material which is resistant to fire, water, and weather. Tarpaulin shall have U.L. approval and comply with FS-CCC-D-746.
G. Torch-cutting and welding operations shall have approval of the General Contractor before such work is started, and chemical extinguishers shall be available at location where work is in progress.

H. No open fires will be permitted in or about premises.

1.24 ACCIDENT PREVENTION

A. Comply with all recommendations and requirements for accident prevention of the Associates, General Contractors of America and the American Standards Association Standard A10.2. The Field Superintendent of the General Contractor shall conduct regular and frequent inspections of the site for compliance with safety regulations, stating in writing to the Architect each month that he has done so. The Architect specifically reserves the right to direct and enforce compliance with safety regulations if conditions on the site do not comply.

B. Neither the Owner nor the Architect shall be responsible for providing a safe working place for the General Contractor, Subcontractors or their employees or any individual responsible to them for the work.

1.25 WELDING AND CUTTING

A. Whether electric or gas welding or cutting work done above or within ten (10) feet of combustible material or above space that may be occupied by persons, interposed shield or incombustible material shall be used to protect against fire damage or injury due to sparks and hot metal.

B. Tanks supplying gases for gas welding or cutting shall be placed at no greater distance from the work than is necessary for safety, securely fastened and maintained in an upright position where practicable. Such tanks, when stored for use, shall be remote from any combustible material and free from exposure to the rays of the sun or too high temperatures.

C. Suitable fire extinguishing equipment shall be maintained near all welding and cutting operations. When operations cease for the noon hour or at the end of the day, the surroundings adjacent to welding and cutting operations shall be thoroughly wetted down.

D. A workman equipped with suitable fire extinguishing equipment shall be stationed near welding and cutting operations to see that sparks do not lodge in floor cracks or pass through floor or wall openings or lodge in any combustible material. The workman shall be kept at the source of work offering special hazards for 30 minutes after the job is completed to make sure that smoldering fires have not been started.

E. A qualified electrician shall be in charge of installing and repairing electric or arc welding equipment. No electric welding equipment shall be connected into the Owner's electrical system.
1.26 **BLASTING**

A. Blasting shall be performed only after written approval has been given by the Owner for such operation.

1.27 **TEMPORARY AND TRIAL USAGE**

A. Temporary or trial usage by Owner of any mechanical device, machinery, apparatus, equipment, or any work or materials supplied under Contract, before final completion and written acceptance by the Architect shall not be construed as evidence of Architect's acceptance of same.

B. The Owner reserves the privilege of such temporary or trial usage, for such reasonable time as required to properly test such item. Claims for damage, due to injury to, or breaking of any parts of such work, when the determined cause is weakness or inaccuracy of structural parts, or by defective material or workmanship, will not be permitted.

C. If the General Contractor so elects, he may, without additional cost to the Owner, place an approved person, or persons, to instruct and assist in such trial usage. Trials shall be made under the Architect's supervision.

1.28 **OVERLOADING**

A. Materials and fabricated work shall not be stacked on, or be transported over, floor and roof construction that would stress any of said construction beyond the designed live loads.

1.29 **SNOW AND ICE REMOVAL**

A. The General Contractor shall remove all snow and ice which may impede the work, damage the finishes or materials, be detrimental to workmen, or impede trucking, delivery, or moving of materials at the job site, or prevent adequate drainage of the site or adjoining areas.

1.30 **WINTER CONSTRUCTION**

A. The General Contractor shall be responsible for providing protection against damage to materials and work installed in freezing weather, by providing special heat and coverings to prevent damage by the elements, in a manner approved by the Architect. The ground surfaces, under footings, under pipe lines, under masonry, under concrete, and other work subject to damage shall be protected against freezing or ice formation. If low temperature makes it impossible to continue operations safely in spite of cold weather precautions, the General Contractor shall cease work and shall so notify the Architect.

1.31 **WIND PROTECTION**

A. Should high wind warnings be issued by the U.S. Weather Bureau, the Contractor shall take every precaution to minimize danger to persons, to the work, and to adjacent property.
1.32  **AIR QUALITY**

A. Building occupancy shall be scheduled after the new HVAC systems have been in operation for a sufficient time to purge the building of construction related pollutants.

1.33  **NOISE AND POLLUTION CONTROL**

A. All work performed under the Contract shall conform to the requirements of Chapter 11, Section 31C and Section 142D of the General Laws, and Rules and Regulations adopted thereto by the Commonwealth of Massachusetts, Department of Public Health.

B. In addition, all work shall comply with **Town of Douglas** regulations for the control of noise including activities on construction sites.

1.34  **SITE DRAINAGE AND PUMPING**

A. The General Contractor shall be responsible for site drainage upon entering the premises and shall maintain such drainage during the life of his Contract in a manner approved by the Architect and so as not to adversely affect the adjacent areas.

B. The General Contractor shall during the progress of the work, provide and maintain all required pumps, suction and discharge lines, and power in sufficient number and capacity to keep all excavations, pits, trenches, foundations, and the entire property areas free from accumulation of water from any source whatsoever, at all items, and under any and all circumstances and contingencies that may arise.

C. For additional requirements for excavation dewatering, refer to the EARTHWORK SECTION of the SPECIFICATIONS.

1.35  **TEMPORARY USE OF ELEVATORS**

A. Should the Contractor desire the use of elevator equipment prior to Substantial Completion, he shall make necessary arrangements with the Elevator Subcontractor, subject to the approval of the architect and subject to code requirements.

B. The Contractor shall reimburse the Elevator Subcontractor for any labor or materials which are not part of the permanent installation and which are required to provide temporary elevator service including, but not limited to, temporary car enclosures, requisite guards or other protection for elevator machine room and hoistway openings, main line switch with wiring and obtaining any other special labor or equipment needed to permit temporary usage.

C. The Contractor shall sign the elevator subcontractor’s temporary acceptance form before any elevator is placed into temporary service; and pay all costs of power, operation, and maintenance and attendance of the equipment.
D. The Contractor shall leave the complete elevator equipment in the same condition as it was at the time it was returned over to him for temporary service. If repairs or replacements are necessary to restore the apparatus to its original condition, he shall allow the Elevator Subcontractor time to make such repairs or replacements and shall pay him for making them.

END OF SECTION