

**SECTION 01 50 00
TEMPORARY CONSTRUCTION FACILITIES**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Temporary Utilities: Electricity, lighting, heat, ventilation, telephone, water, and sanitary
- B. Temporary Controls: Barriers, enclosures and fencing, protection of the Work, and water control
- C. Construction Facilities: Access roads, parking, progress cleaning, project signage, and temporary buildings

1.2 REGULATORY REQUIREMENTS

- A. Conform to all applicable codes, standards and requirements
 - 1. Florida Building Code
 - 2. Florida Fire Prevention Code
 - 3. OSHA standards
 - 4. State Requirements for Educational Facilities
 - 5. District requirements
 - 6. Other related or referenced codes and standards listed in items 1 thru 5 above

1.3 TEMPORARY ELECTRICITY

- A. Cost: By Contractor, provide and pay for power service required from utility source.
- B. Provide temporary electric feeder from existing building electrical service at location as directed.
 - 1. Do not disrupt Owner's use of service.
- C. Complement existing power service capacity and characteristics as required.
- D. Provide power outlets for construction operations, with branch wiring and distribution boxes located as required.
 - 1. Provide flexible power cords as required to comply with OSHA standards.
- E. Provide main service disconnect and over current protection at convenient location.
- F. Contractor may use permanent convenience receptacles during construction as long as the use does not trip circuit breakers in the building or otherwise interferes with Owner's use of service.

1.4 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

- A. Provide and maintain lighting for construction operations to achieve a minimum lighting level as required by OSHA.
- B. Provide and maintain adequate security lighting to exterior staging and storage areas after dark.
- C. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.
- D. Maintain lighting and provide routine repairs.
- E. Contractor may use permanent building lighting during construction.

1.5 TEMPORARY HEATING

- A. Provide and pay for heating devices and heat as needed to maintain specified conditions for construction operations per material manufacturer's or supplier's requirements.
- B. Prior to operation of permanent equipment for temporary heating purposes, verify the installation is approved for operation; equipment is lubricated and filters in place.
 - 1. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.

1.6 TEMPORARY COOLING

- A. Provide and pay for cooling devices and cooling as needed to maintain specified conditions for construction operations per material manufacturer's or supplier's requirements.

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- B. Prior to operation of permanent equipment for temporary cooling purposes, verify the installation has approval for operation, the system controls are functional, equipment properly lubricated, and filters in place.
 - 1. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.
 - C. Unless indicated otherwise in specifications, in areas where construction is in progress, maintain maximum relative humidity of 60%, or as dry as needed to prevent the formation of mold.
- 1.7 TEMPORARY VENTILATION
- A. Ventilate enclosed areas to achieve curing of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
 - B. Utilize existing ventilation equipment.
 - 1. Extend and supplement equipment with temporary fan units as required to maintain clean air for construction operations.
- 1.8 TELEPHONE SERVICE
- A. Provide, maintain, and pay for telephone service, including long distance available for the Owner's use, at time of project mobilization and continue until Final Completion.
- 1.9 FACSIMILE SERVICE
- A. Provide, maintain, and pay for facsimile service and a dedicated telephone line available for the Owner's use at time of project mobilization.
- 1.10 TEMPORARY WATER SERVICE
- A. Provide, maintain, and pay for suitable quality water service required.
 - B. Extend branch piping with outlets located so water is available by hoses with threaded connections.
- 1.11 TEMPORARY SANITARY FACILITIES
- A. Provide and maintain required sanitary facilities and enclosures for start of project mobilization through the end of project. Do not use any existing facilities.
 - 1. Portable sanitary facilities shall be checked, cleaned and serviced weekly by the company that provides the units.
 - B. At end of construction, return facilities to same or better condition as originally found.
- 1.12 BARRIERS
- A. Provide barriers to prevent unauthorized entry to construction areas, to allow for Owner's use of site, and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
 - B. Provide barricades as required by governing authorities for public rights-of-way and for public access to existing building.
 - C. Provide protection for plants designated to remain.
 - 1. Replace damaged plants.
 - D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.
- 1.13 FENCING
- A. Construction: Commercial-grade chain link fence or Solid wood fence as designated on drawings.
 - B. Provide 6' high fence around construction site; equip with vehicular and pedestrian gates with locks.
 - 1. Provide top rail/support on all temporary fencing.
 - 2. Provide windscreen on temporary chain link fencing.
 - C. Permanent fencing required in the contract documents may be installed in place of temporary fencing at the Contractor's option.

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D. Comply with FBC 453 - STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES.

1.14 WATER CONTROL

- A. Grade site to drain and keep excavations free of water.
 - 1. Provide, operate, and maintain pumping equipment as necessary.
- B. Protect site from ponding or running water with water barriers as required to prevent soil erosion.

1.15 EXTERIOR ENCLOSURES

- A. Provide temporary weather tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons.
- B. Provide access doors with locks.

1.16 INTERIOR ENCLOSURES

- A. Provide temporary partitions and ceilings as indicated to separate the work areas from Owner occupied areas, to prevent penetration of dust and moisture into Owner occupied areas, and to prevent damage to existing materials and equipment.
- B. Construction: Framing shall be metal stud and gypsum board with reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces:
 - 1. STC rating of 35 in accordance with ASTM E90
 - 2. Maximum flame spread rating of 25 in accordance with ASTM E84.

1.17 PROTECTION OF INSTALLED WORK

- A. Protect completed work and provide special protection as specified in other specification sections.
- B. Provide temporary and removable protection for installed products.
 - 1. Control activity in immediate work area to prevent damage.
- C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- E. Prohibit traffic or storage upon waterproofed or roofed surfaces.
 - 1. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- F. Prohibit traffic in landscaped areas.

1.18 SECURITY

- A. Provide security and facilities to protect Work in the area of construction from unauthorized entry, vandalism, or theft.
- B. Coordinate with Owner's security program.

1.19 ACCESS ROADS

- A. Construct and maintain temporary roads accessing public thoroughfares to serve construction area.
- B. Extend and relocate, as required to provide detours necessary for unimpeded traffic flow.
- C. Provide and maintain access to fire hydrants, free of obstructions.
- D. Provide means of removing mud from construction vehicle wheels before entering streets.
- E. Only use designated existing on-site roads for construction traffic.

1.20 PARKING

- A. Arrange for temporary surface parking areas to accommodate construction personnel.
- B. When site space is not adequate, provide additional off-site parking.
- C. Do not allow vehicle parking on existing pavement, unless approved by the Owner.

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- D. Designate two parking spaces for the Owner.

1.21 PROGRESS CLEANING AND WASTE REMOVAL

- A. Maintain site in a clean and orderly condition free of waste materials, debris, and rubbish.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- D. Collect and remove waste materials, debris, and rubbish from site weekly and properly dispose off-site.
- E. No open free-fall chutes permitted terminate closed chutes into appropriate containers with lids.

1.22 PROJECT IDENTIFICATION

- A. Provide 8' w x 4' h project sign of exterior grade plywood and wood frame construction, painted, with exhibit lettering by professional sign painter or die cut vinyl self-adhesive letters, and self-adhesive School District logo, to Owner's design and colors.
 - 1. The wording on project sign shall include the Project Coordinator's name and telephone contact number.
- B. Provide a sign near workers entrance with the following information in addition to other required safety instructions:
 - 1. WARNING: HARD HAT AREA
 - 2. UNAUTHORIZED ENTRY PROHIBITED
 - 3. ALL VISITORS MUST REPORT DIRECTLY TO THE CONSTRUCTION TRAILER OR OFFICE.
 - 4. WORK SITE RULES:
 - a. BE ALERT, REPORT UNSAFE CONDITIONS IMMEDIATELY TO JOB SUPERINTENDENT OR DISTRICT REPRESENTATIVE.
 - b. NO SMOKING, DRUGS, ALCOHOL or LOUD RADIO PLAYING
 - c. NO INAPPROPRIATE CONTACT WITH STUDENTS or SCHOOL STAFF (This is for a student occupied campus)
 - d. THE FOLLOWING MUST BE WORN AT ALL TIMES:
 - i) HARD HATS and SAFETY GLASSES
 - ii) HARD SOLE SHOES (NO SNEAKERS)
 - iii) SHIRTS AND LONG PANTS
 - iv) DISTRICT ISSUED I.D. BADGE
 - 5. YOUR COOPERATION IS GREATLY APPRECIATED
- C. Contractors and Designers identification signs shall be located in such a way as to not distract from the District's project sign or interfere with traffic site lines at driveways.
- D. Provide permanent and temporary freestanding exterior signs that shall comply with Florida Building Code (FBC) Chapter 16.
- E. Erect on site at location indicated.
- F. All other signs require Owner's permission except those required by law.

1.23 FIELD OFFICES AND SHEDS

- A. Provide weather tight office, with lighting, electrical outlets, heating, cooling and ventilating equipment, and equipped with sturdy furniture, drawing rack and drawing display table.
- B. Provide space for Project meetings, with table and chairs to accommodate 10 persons.
- C. Provide a separate space for Owner representatives, to be determined by the Senior Project Administrator, with the following utilities and furnishings:
 - 1. Electrical services

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2. Permanent lighting
 3. Heating, Ventilating and Air Conditioning
 4. Potable water service
 5. Chilled bottled water service
 6. Toilet facilities with hand sink and sanitary hook-up
 7. Parking - two reserved locations at field office
 8. Waste removal
 9. Access stairs conforming to codes
 10. Secure field office to comply with codes
 11. Telephones (2) with answering machines
 12. Copy machine (1)
 13. Facsimile machine (1)
 14. Outdoor thermometer
 15. Rain gauge
 16. Furniture
 - a. Desks (2), 3' x 5' each
 - b. Office chairs (2)
 - c. Side chairs (2)
 - d. File cabinet, legal, four drawer (1)
 - e. Folding chairs (6)
 - f. Plan table, 3' x 8', (1)
 - g. Work table, 3' x 6', (1)
 - D. Locate offices and sheds a minimum distance of 30' from existing and new structures.
 - E. Properly anchor any design field offices and/or sheds to resist hurricane force wind loads.
 - F. Provide space dedicated to Threshold Inspector on applicable projects.
- 1.24 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS
- A. Remove temporary utilities, equipment, facilities, and materials, prior to Final Completion inspection.
 - B. Disconnect and properly cap all temporary utilities prior to Final Completion.
 - C. Remove underground installations to a minimum depth of 2'; grade site as indicated.
 - D. Indicate the location and type of all underground temporary utilities on the as-build plans that are to remain.
 - E. Clean and repair damage caused by installation or use of temporary work.
 - F. Restore existing and permanent facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.
- 1.25 TEMPORARY LIFE SAFETY CONTROLS
- A. When existing fire alarm, fire protection, and emergency lighting systems are present and will be used during construction, those systems are to be tested prior to the start of the project. Defects found at that time to be the responsibility of and corrected by the Owner.
 - B. The Contractor shall provide all temporary life safety systems required by statute, rule or code.
- 1.26 HURRICANE and SEVERE STORM PROTECTION
- A. Construction Manager/Contractor shall develop a plan and implementation procedure for preparing the construction site in the event of a hurricane or severe storm warning.
 - B. Develop the plan with the School District representatives.
 - C. It shall include as a minimum:
 1. Securing construction material from becoming wind borne debris during high winds

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2. Securing and protecting partially completed building components during the event

PART 2 PRODUCTS

2.1 Not Used.

PART 3 EXECUTION

3.1 Not Used.

END OF SECTION