

SECTION 01500
TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.01 DESCRIPTION.

This Section covers the temporary facilities and controls for the Work and is supplementary to the Conditions of the Contract.

A. Work Included In This Section. Principal items are:

1. Construction utilities.
2. Construction aids.
3. Security provisions.
4. Roads and access.
5. Special controls.
6. Field office for Owner, Engineer, and Inspector.
7. Sanitary facilities.
8. Telephone services.
9. Contractor's office and storage facilities.
10. Project sign for Owner.
11. Dust, sediment and erosion controls.

B. Related Work Not Included In This Section.

1. Permanent construction and facilities.
2. Permanent utility services.

1.02 REQUIREMENTS OF REGULATORY AGENCIES.

Make all necessary arrangements, secure required permits, and pay all fees and charges required by public authorities where temporary facilities or controls are located on public property.

1.03 WORKING AREAS.

Drawings indicate the site and related areas furnished or owned by Owner for prosecution of the Work. Keep all areas clean, orderly, and free of hazards, and leave in a clean condition acceptable to Owner, Engineer, and governing public authorities.

1.04 SUBMITTALS.

A. Drawings and Data. Follow procedures for submittal of shop drawings and materials lists. Submit the following:

1. Site barriers and fences showing details and layout. Mark on reproducible prints of site plans.
2. Layout of temporary access and haul roads, and layout and arrangement of Contractor's office and storage facilities. Mark on reproducible prints of site plans.
3. Drawings, sketches, catalog data, brochures, and other data to illustrate the location, arrangement, layout, equipment, furnishings, and utility services for the field office for the Owner, Engineer, and Inspector. Include calculations and data to demonstrate the adequacy of the heating and air conditioning systems.

4. For record purposes only and not for review or approval, submit shop drawing and calculations for all specially designed scaffolding and staging, prepared and stamped by a registered professional civil or structural engineer.
5. Details of project sign for Owner, including accurately scaled and dimensioned lettering layout.

B. Samples. Submit paint color samples for:

1. Solid site barricades and fences.
2. Owner's project sign.

PART 2 – PRODUCTS

Not Used.

PART 3 - EXECUTION

3.01 CONSTRUCTION UTILITIES.

A. Refer to Article 15 of the General Conditions. Under these Contract Documents, the Owner will furnish water for construction purposes at no charge to the Contractor for the quantities used for construction, limited to the quantities and characteristics available at the designated or specified supply points. Contractor shall furnish and pay for utilities exceeding the quantities furnished by Owner, or when he requires utilities of characteristics differing from the utilities furnished by Owner. Furnish the temporary piping, wiring, and other services necessary to distribute utilities to the places where Work is performed. Conform to Division 16 as to construction wiring and install power circuits separately from lighting and communication circuits. Install construction lighting when Work is performed at night or under deficient daylight conditions to ensure correct performance and to provide for inspection and safe working conditions.

1. Water. Owner will furnish water at the indicated supply point.
2. Electricity. Contractor shall furnish temporary poles, enclosures, meters, connections, current limiting fuses, and disconnects at each supply point, types and capacities as approved. Inspector will record meter readings at weekly intervals. Do not overload existing electrical systems, and repair all damage to existing systems caused by Contractor's operations, as directed and approved and at no cost to Owner.

3.02 CONSTRUCTION AIDS.

Comply with OSHA requirements and applicable laws, ordinances, rules, regulations, and orders pertaining to construction machinery and equipment, hoists, cranes, scaffolding, staging, materials handling facilities, tools, appliances, and other construction aids. OSHA requirements shall govern where mandatory; otherwise, comply with most stringent requirements. Construct specially designed scaffolding and staging in accordance with drawings prepared by engineer as specified for submittal.

3.03 SECURITY.

Fire Protection Contractor is responsible for Work and materials in the event of a fire and should take precautions accordingly.

PROJECT NAME

[PROJECT NO. **XX-XXXX.XX**]

01500 - 2

**TEMPORARY
FACILITIES & CONTROLS**

3.04 ROADS AND ACCESS.

A. Transportation Facilities. Investigate the availability of transportation facilities and make necessary arrangements for delivery of materials to the site. Determine the condition and availability of public roads, access, rights-of-way, and of restrictions, bridge load limits, and other limitations affecting transportation and ingress and egress at the site.

B. Site Access and Haul Roads. Construct as required for the Work. Provide oil treatment or similar surfacing as required to prevent dust nuisance or impassable conditions, and prevent oil staining and dirt accumulation on public streets used for access. Provide board ramps and covers with warning signs or barriers, or equivalent, where vehicles cross public curbs and walks and remove at end of each day's operations; furnish flagman guard when such access is in use. Maintain site and temporary roadway drainage by ditches, culverts, and similar items as required.

3.05 SPECIAL CONTROLS.

A. Noise Control. Comply with OSHA requirements as to allowable noise levels during construction. Equip all internal combustion engines in vehicles and construction equipment with effective mufflers. Prevent noise disturbance to adjoining property owners and the public.

B. Dust Control. Sprinkle streets and places where construction operations create a dust nuisance at frequent intervals and not less than twice daily. Be responsible for all damage resulting from dust produced by construction operations.

C. Water Control. Perform grading and other operations to maintain site drainage. Do not allow surface water to accumulate in excavations, under structures, or in ponds on the site and control surface water by means of ditches, dams, temporary pumps and piping, and other necessary methods. Legally dispose of surface and subsurface water and do not allow mud, silt, or debris to flow on to adjoining or public property.

D. Air Pollution Control. Comply with all laws, ordinances, rules, regulations, and orders pertaining to air pollution. Do not use any fuel nor perform any operation that emits smoke which is defined as equal to Ringleman No. 2 or darker.

3.06 SANITARY FACILITIES.

A. Toilet and Washing Facilities. Provide temporary chemical toilets and fresh water washing facilities for the use of all workmen at the site. Supply paper, soap, and towels, and maintain the facilities in a clean and sanitary condition. Pit type privies are not permitted.

B. Drinking Water. Maintain a supply of cool pure drinking water at the site, readily available to workmen, with individual disposal drinking cups or a sanitary bubbler fountain.

3.07 CONTRACTOR'S OFFICE AND STORAGE FACILITIES.

Furnish and maintain offices for use of Contractor and Subcontractors as necessary for the prosecution of the Work. Furnish and maintain storage buildings and sheds of acceptable appearance and install in an orderly approved arrangement. Provide asphaltic paving or equivalent in storage facilities to prevent contamination of stored products, and construct access and haul roads as necessary. If any material or equipment storage or installed in partially completed structures is not adequately protected, the Owner may install the necessary protection and the Contractor shall pay to the Owner the costs the Owner incurs in furnishing such protection.

3.08 REMOVAL OF TEMPORARY FACILITIES AND CONTROLS.

Remove temporary facilities and controls from the site and where the Work is performed when no longer required in the Engineer's opinion. Clean up and restore areas occupied by temporary facilities to acceptable condition.

3.09 WATER SUPPLY.

The Contractor shall provide a water connection, as located by the Valley Center Municipal Water District. The Contractor shall provide all necessary piping, valving and backflow prevention devices, valves, and meters as is necessary to provide the water for construction purposes.

3.10 POWER.

Contractor shall arrange for temporary power supply to the site for construction purposes. The Contractor shall bear the cost of installation, maintenance and removal of all temporary power facilities and the electrical power usage.

3.11 PERMITS.

Contractor shall obtain and maintain all temporary permits, easements and rights-of-way necessary for access, conveyance of utilities, storage of material and equipment, employee parking and other necessary facilities.

END OF SECTION 01500