

*Soils  
File 261W  
30 Jan 78*

SECTION 01501. ENVIRONMENTAL PROTECTION

1. ENVIRONMENTAL PROTECTION PLAN: The Contractor shall be responsible for the preparation and submission of an environmental protection plan. After the contract is awarded, but prior to the commencement of the work, the Contractor shall meet with the Contracting Officer, or his representative, and discuss the proposed environmental protection plan. The meeting shall develop mutual understanding relative to details of environmental protection, including required reports and measures to be taken should the Contractor fail to provide adequate protection in an adequate and timely manner. Not more than 14 days after the meeting, the Contractor shall submit for approval his proposed environmental protection plan.

2. GENERAL REQUIREMENTS: The Contractor shall provide and maintain environmental protection during the life of the contract as defined herein. The Contractor's operations shall comply with all Federal, State, and Local regulations pertaining to water, air, solid waste, and noise pollution.

3. DEFINITIONS OF POLLUTANTS:

3.1. Non-hazardous wastes: Solid or liquid substances that are to be discarded by the Contractor and that normally do not constitute a hazard to man or to the environment. This includes, but is not limited to, paper, metal (other than toxic metals such as lead and mercury), masonry, wood, brick, stone, asphaltic concrete, plastics, rubber, rubbish and concrete.

3.2. Hazardous wastes: Solid and liquid substances that are to be discarded by the Contractor and that constitute a significant active or potential hazard to man and/or to the remainder of the environment. This includes, but is not limited to, asbestos, glass, lead, mercury, pesticides, herbicides, other toxic chemicals and waste, liquid petroleum products, human excrement, garbage, sediment, and radioactive materials.

3.2.1. Sediment: Soil that has been eroded and transported by running water.

3.2.2. Garbage: Waste foodstuffs.

3.2.3. Human excrement: Solid or liquid wastes produced by the human body.

4. PROTECTION OF NATURAL RESOURCES:

4.1. General: It is intended that the natural resources within the project boundaries and outside the limits of permanent work performed under this contract be preserved in their existing condition or be restored to an equivalent or improved condition upon completion of the work. The Contractor shall confine his construction activities to areas defined by the work schedule, plans, and specifications.

cc  
dt  
no  
ti

sp  
ch  
ii  
ic

4.2. Land Resources: The Contractor shall not remove, cut, deface, injure, or destroy trees or shrubs without written permission from the Contracting Officer. No ropes, cables, or guys shall be fastened to or attached to any existing nearby trees for anchorages unless specifically authorized. Where such special emergency use is permitted, the Contractor shall be responsible for repairing or replacing any damage resulting from such use.

4.2.1. Protection Plan: Where trees may possibly be defaced, bruised, injured or otherwise damaged by the Contractor's activity, equipment, or by his dumping, or other operations, the Contractor shall submit a plan for protecting such trees. Monuments, markers and works of art shall be protected before beginning operations.

4.2.2. Repair or Restoration: Any trees or other landscape features scarred or damaged by the Contractor's equipment or operations shall be repaired and/or restored to their original condition at the Contractor's expense. The Contracting Officer shall approve the repair and/or restoration planned prior to its initiation.

4.2.3. Temporary Construction: The Contractor shall obliterate all signs of temporary construction facilities such as work areas, structures, stockpiles of excess or waste materials, or any other vestiges of construction as directed by the Contracting Officer.

4.3. Water Resources: It shall be the responsibility of the Contractor to investigate and comply with all applicable Federal, State, and Local regulations concerning the discharge (directly or indirectly) of pollutants to the underground and natural waters. All work under this contract shall be performed in such a manner that any adverse environmental impacts are reduced to a level that is acceptable to the Contracting Officer.

4.4. Oily Substances: At all times, special measures shall be taken to prevent oily or other hazardous substances from entering the ground, drainage areas, or local bodies of water in such quantities as to affect normal use, aesthetics or produce a measurable ecological impact on the area.

4.5. Historical and Archeological Resources: All items having any apparent historical or archeological interest which are discovered in the course of any construction activities shall be carefully preserved and reported immediately to the Contracting Officer for determination of actions to be taken.

#### 5. EROSION AND SEDIMENT CONTROL MEASURES:

5.1. Burn-off of Ground Cover will not be permitted.



SV

m

o

iv

r

o

m

ac

ic

h

5.2. Reduction of Exposure of Unprotected Erodible Soils: Earthwork which has been brought to final grade shall immediately be paved or otherwise finished as indicated and specified. All earthwork shall be planned and conducted in such a manner as to minimize the area and duration of exposure of unprotected soils.

5.3. Temporary Protection of Erodible Soils: Such methods as may be necessary shall be utilized to effectively prevent erosion and control sedimentation, including, but not limited to, the following:

5.3.1. Mechanical Retardation and Control of Runoff: The rate of runoff from the construction site shall be mechanically retarded and controlled. This includes construction of diversion ditches, benches, and berms, to retard and divert runoff to protected drainage courses.

5.3.2. Sediment Basins: Sediment shall be trapped in temporary or permanent sediment basins. The basins shall be designed (sized) to accommodate the runoff of a local 10-year storm and shall be pumped dry and all sediment removed after each storm. Overflow shall be by paved weir or by vertical overflow pipe, draining from the surface. The collected sediment shall, for example: (1) be returned to the source of erosion, (2) be used as fill on the construction site, or (3) be used as fill at other sites. The Contractor shall institute effluent quality monitoring programs as required by State and Local environmental agencies.

5.3.3. Buffer Zones: No land-disturbing activity shall be permitted in proximity to a lake or natural watercourse unless a buffer zone is provided along the margin of the watercourse of sufficient width to confine visible siltation within the twenty-five percent of the buffer zone nearer the land-disturbing activity, provided, that this paragraph shall not apply to a land-disturbing activity in connection with the construction of facilities to be located on, over, or under a lake or natural watercourse.

5.3.4. Angle for Graded Slopes and Fills shall be no greater than the angle which can be retained by vegetative cover or other adequate erosion control devices or structures. In any event, slopes left exposed will, within 30 working days of completion of any phase of grading, be planted or otherwise provided with ground cover, devices, or structures sufficient to restrain erosion.

5.3.5. Revegetation: Whenever land-disturbing activity is undertaken on a tract comprising more than one acre, if more than one contiguous acre is uncovered, a ground cover sufficient to restrain erosion must be planted or otherwise provided within 30 working days on that portion of the tract upon which further active construction is not being undertaken.

V  
19  
15  
10  
5  
18  
13  
11  
10  
11  
11



6. CONTROL AND DISPOSAL OF HAZARDOUS AND NON-HAZARDOUS WASTES:

6.1. Non-hazardous wastes, except rubble, shall be picked up and disposed of daily or placed in containers which are emptied on a weekly schedule. All handling and disposal shall be so conducted as to prevent contamination of the site and any other areas. The Contractor shall (1) transport all such waste ~~off Government property~~ and dispose of it in ~~a manner that complies with Federal, State, and Local requirements,~~ or (2) ~~dig a hole at a location on the Base, as directed, within 3 miles of the site and bury and cover the waste.~~ *the Base Sanitary Landfill.* If transporting any material off Government property, the Contractor shall provide the Contracting Officer a copy of State and/or local permit which reflects the responsible agency's approval of the disposal area and proposed waste disposal methods. Rubble such as masonry, stone, concrete without reinforcing steel, and brick shall be deposited as directed ~~within 12 miles of the site.~~ *see para. 12.11* Upon completion, the work and disposal areas shall be left clean and natural looking. All signs of temporary construction and activities incidental to construction of the required permanent work in place shall be obliterated.

6.2. Hazardous Wastes:

6.2.1. Garbage Disposal: The Contractor shall transport his garbage to the Base Sanitary Landfill, ~~or off Base.~~ *(on) at the site of the old Cp. Geiger sanitary land fill (form MCAS(H) & Geiger)* The preparation, cooking and disposing of food are strictly prohibited on the project site.

6.2.2. Sewage, Odor and Pest Control: Chemical toilets or comparably effective units shall be used with wastes periodically emptied into municipal, district, or Base sanitary sewage systems. Provisions shall be included for masking or elimination of odors and pest control. Compliance with Federal, State, and Local regulations shall be established by the Contractor providing the Contracting Officer with a copy of the permit or license when applicable.

6.2.3. Liquid wastes shall be stored in corrosion-resistant containers, removed from the project site, and disposed of not less frequently than monthly unless directed otherwise. Disposal of liquid waste shall be in accordance with Federal, State and Local regulations. Fueling and lubricating of equipment and motor vehicles shall be conducted in a manner that affords the maximum protection against spills and evaporation. For oil and hazardous material spills which may be large enough to violate Federal, State and Local regulations, the Contracting Officer shall be notified immediately.

END OF SECTION 01501

