

**DIVISION 3 PRODUCTION FROM QUARRY AND PIT SITES AND STOCKPILING****SECTION 3-01 PRODUCTION FROM QUARRY AND PIT SITES****3-01.1 DESCRIPTION**

Section 3-01 describes work consisting of manufacturing and producing crushed and screened aggregates including pit run aggregates of the kind, quality, and grading specified for use in the construction of Portland cement concrete, asphalt concrete, asphalt treated base, crushed surfacing, maintenance rock, ballast, gravel base, gravel backfill, gravel borrow, riprap, and bituminous surface treatments of all descriptions.

These requirements shall apply whether the source is ledge rock, talus, gravel, sand, or any combination thereof.

**3-01.2 MATERIALS****3-01.2(1) GENERAL SOURCE****3-01.2(1)A APPROVAL OF SOURCE**

Material sources shall be approved in advance of use in the Work in accordance with the requirements of Section 1-06.

**3-01.2(1)B STRIPPING QUARRIES AND PITS**

Stripping of quarries and pits shall consist of the removal, after clearing and grubbing, of the surface material and overburden which is unsuitable for the kind of Material to be borrowed or produced for use. Materials from stripping, to be used later as provided on the site reclamation plan specified in Section 3-03, shall be deposited within the quarry or pit site at such a location as not to interfere with future development within the site.

**3-01.2(1)C PREPARATION OF SITE**

The portion of the quarry or pit site to be used shall be cleared and grubbed, and the area from which Materials are to be taken shall be stripped of overburden as provided in Section 3-01.2(1)B. All combustible debris resulting from these operations shall be disposed of by the Contractor in a manner acceptable to the Engineer.

**3-01.2(1)D PRODUCTION REQUIREMENTS**

All oversize stones, rock fragments, or boulders occurring in the source, up to and including those measuring 18 inches in the greatest dimension, shall be utilized in the manufacture of crushed Material.

If the grading or quality of raw Material in sources used for the manufacture of products covered by this Section is such that the fracture, grading, or quality of the product specified cannot be obtained by utilizing the natural Material, fine portions of the raw Material shall be rejected to the extent necessary to produce products meeting all requirements of these Specifications. Failure of the Owner to include a scalping requirement in the Contract shall not relieve the Contractor of the responsibility for rejecting fine portions of the Material if such becomes necessary to produce products meeting all requirements of these Specifications. Scalping shall be performed after the pit-run or quarry-run Material has passed through the primary crusher.

When scalping over a screen of a specified size is required in the Contract, the scalping screen shall be of such size and capacity that enough of the fine Material will be removed to produce Material as specified.

Washing and reclaiming of the reject Material and subsequent addition of this Material to any finished products will not be allowed unless specifically authorized in writing by the Engineer.

Surplus screenings accumulated during the crushing and screening of specified roadway Materials will be considered separate and distinct from reject Material resulting from scalping operations.

Both fine and coarse concrete aggregates shall be thoroughly washed in order to remove clay, loam, alkali, bark, sticks, organic castings, or other deleterious matter. Washing will be required in the production of other Materials if necessary to produce products meeting all the quality requirements of these Specifications.

When producing screened gravel or sand Materials, the Contractor shall remove all oversize Material by screening at the pit site. The Contractor's operations in the pit shall be conducted so that the grading of individual loads will be reasonably uniform. In general, the Contractor shall utilize the most suitable Materials available and shall make as many moves of the loading equipment as may be necessary to fulfill these requirements.

Where pit-run Materials meet the requirements of the Specifications, screening or processing will not be required.

**3-01.2(1)E FINAL CLEANUP**

Upon completion of the Contractor's operation, the quarry or pit shall be cleared of all rubbish, temporary structures, and equipment, and shall be left in a neat and presentable condition. The pit or quarry shall be reclaimed in accordance with the approved site reclamation plan specified in Section 3-03.

**3-01.2(2) CONTRACTOR-FURNISHED MATERIAL SOURCE**

If the Contractor chooses to provide a source of Materials, or if the Contractor elects to use Materials from other private sources, the Contractor shall, at no expense to the Owner, make all necessary arrangements for obtaining the Material and shall provide evidence that the needed quantity of suitable Material satisfying the requirements of Section 1-06 is available. Use of Materials from such sources will not be permitted until representative samples taken by the Engineer have been tested, the source approved, and authority granted for the use thereof. Before the samples are taken by the Engineer, the Contractor shall, at no expense to the Owner, have done enough testing of the proposed site to enable the Engineer to obtain a sample that is representative of the Materials in the source.

Approval of a Contractor's source offered in lieu of Owner pre-approved sources will be contingent upon the Material therein being of equal quality, and no additional costs will accrue to the Owner as a result of such approval. Equivalency of quality will be based on those test values listed in the Contract as being representative of Material in the Owner pre-approved source. If no such values are listed, the minimum specification requirements will apply.

The Contractor shall notify the State Departments of Ecology, Fish and Wildlife and Natural Resources, in writing, of the intent to furnish the source, and shall, at no expense to the Owner, make all necessary arrangements with these agencies for the determinations of regulations which might be imposed upon the Contractor during removal of Materials from the source. When the Contractor intends to operate a source under the Owner's blanket surface mining permit, the Contractor shall submit a reclamation plan at least 10 Working Days in advance. No work shall begin in the pit or quarry before the reclamation plan is approved by the Engineer.

The source shall be selected so that, after the Materials have been removed, the pit shall drain to a natural drainage course and no ponding can result. Should the source selected by the Contractor be one which would not drain as outlined herein, permission shall be obtained by the Contractor from the governing body of the city or county for the removal of Materials from the pit or quarry, and provide a copy to the Engineer.

The Contractor shall not operate a pit or a quarry site visible from any State highway unless it can be demonstrated to the complete satisfaction of the Engineer that no unsightly condition will result from or remain as a result of the Contractor's operations. If, in the opinion of the Engineer, unsightly conditions exist after removal of Materials from the site, the Contractor shall correct such unsightly conditions as hereinafter provided.

Following removal of Materials from the pit, the entire site shall be cleared of all rubbish, temporary structures, and equipment which have resulted from the Contractor's occupancy and operations. The Contractor shall obliterate or screen to the satisfaction of the Engineer any unsightly conditions that remain. The Contractor shall secure a written release from the permitter upon fulfillment of these requirements. All costs for cleaning up the pit site and for the installation or erection of screening or for other work required to correct unsightly conditions shall be at the Contractor's sole expense. The requirements of this paragraph shall not apply to pits being operated commercially.

All costs in connection with acquiring the rights to take Materials from the source, for exploring and developing the site, for complying with the regulations of the aforesaid State agencies, for preparing the site as provided in Sections 3-01.2(1)C and 3-03, for cleaning up the site, and for correcting unsightly conditions, shall be included in the Bid item prices for the various Bid items of Work involved.

The grading and quality of Material shall meet the requirements of Section 9-03 unless the Contract specifies otherwise.

**3-01.3 RESERVED**

**3-01.4 MEASUREMENT**

Bid items of Work completed pursuant to the Contract will be measured as provided in Section 1-09.1, Measurement of Quantities, unless otherwise provided for by individual measurement paragraphs herein this Section.

All crushed, screened, or other quarry Materials will be measured by the tonnage of total weight of Material source minus water which is in excess of naturally occurring amounts.

For payment purposes, all crushed, screened, or naturally occurring Materials that are to be paid for by the ton, dependent on their grading, will be limited to the following water contents naturally occurring in the Material source:

<b>% By Weight Passing U.S. No. 4</b>	<b>Maximum Water Content % By Weight</b>
Less than 20%	4%
20% or more	8%

**3-01.5 PAYMENT**

Unless otherwise specified in the Contract, all costs in connection with the production of Materials meeting the quality requirements of these Specifications shall be included in the Bid item prices of the various Bid items involved and no separate or additional payment will be made.

Payment for the particular Materials or aggregates to be produced will be as specified in the appropriate Sections of the Specifications.

**SECTION 3-02 RESERVED**

**SECTION 3-03 SITE RECLAMATION****3-03.1 DESCRIPTION**

Section 3-03 describes work consisting of reclaiming land used for borrowing Material, mining for aggregates, sorting or wasting Materials as specified in the Contract.

**3-03.2 GENERAL REQUIREMENTS****3-03.2(1) RESERVED****3-03.2(2) SITES****3-03.2(2)A CONTRACTOR-PROVIDED SITES**

All borrow, quarry, and pit sites larger than three acres in size of disturbed land, or resulting in pit walls more than thirty feet high and steeper than a one to one slope which are owned or furnished by the Contractor, shall be reclaimed in accordance with the conditions and requirements of an approved operating permit acquired from the Department of Natural Resources. When Material is acquired exclusively for use on this Contract, approval of reclamation plans may be allowed by the Surface-Mined Land Reclamation Act of Washington and the rules and regulations adopted by the Department of Natural Resources.

When the Contractor obtains an operating permit from the Department of Natural Resources, evidence of such approval shall be furnished to the Engineer at least 3 Working Days prior to any work within the site.

Ultimate reclamation plans are not normally required for borrow, quarry, or pit sites not meeting the above criteria or for stockpile waste sites. However, all such sites shall be reclaimed to the extent necessary to control erosion and provide satisfactory appearance consistent with anticipated future use.

Compliance with the State Environmental Policy Act (SEPA) is required for sites involving more than 100 cubic yards of excavation, or fill, throughout the lifetime of the site unless the local agency in which the project is located establishes a greater amount. Sites involving more than 500 cubic yards of excavation or landfill throughout the lifetime of the site always require compliance with SEPA. Reclamation plans shall be prepared and submitted as hereinafter specified.

Under no circumstance will the Contractor be allowed to waste Material within a wetland as defined in Section 1-07.5(9).

**3-03.2(2)B OUT OF STATE SITES**

All out-of-State borrow, quarry or pit, stockpile, and waste sites which are furnished by the Contractor exclusively for use on this Contract shall be reclaimed in accordance with an approved reclamation plan that is in compliance with local area restrictions.

**3-03.2(3) RECLAMATION PLANS****3-03.2(3)A RESERVED****3-03.2(3)B PLANS FOR CONTRACTOR-PROVIDED SITES**

A plan will not be required except on specific request for those sources of Material for which the Contractor has obtained a valid surface mining operating permit issued by the Department of Natural Resources and has paid all required fees.

If the Contractor elects to apply for an approved reclamation plan, the following requirements shall apply:

1. The Contractor shall prepare it's own plan.
2. Reclamation plans shall be approved in advance of any work within the site.
3. The Contract will include a list of minimum design requirements which must be considered in preparing reclamation plans. The Contractor shall meet or exceed these minimum requirements for the various types of sites described in the Contract. The Owner reserves the right to accept or reject reclamation plans.
4. All Drawings required by the plan shall be on reproducible sheets 22 or 24 inches wide by 36 inches long in overall dimensions.
5. The Contractor shall furnish to the Engineer for approval 6 copies of the reclamation plan which shall include but not be limited to the following details:
  - a. Site boundaries and pertinent topographic features.
  - b. Location of the site. The plan shall provide sufficient information to permit the site to be located on quadrangle or county maps.
  - c. Proposed finished ground contours or cross-sections and all final slopes.
  - d. Site drainage; restoration of stream beds.
  - e. Methods by which contaminants are controlled.
  - f. Planned lakes, ponds or other bodies of water which would be beneficial for residential, recreational, game or wildlife purposes.
  - g. Local zoning and planning, if any.
  - h. Type of vegetative cover.
  - i. Proposed stockpiles or buildings.
  - j. Any proposed development of the site which will be affected within 2 years after depletion or abandonment of the site.

- k. A statement of the proposed subsequent use of the land after reclamation and satisfactory evidence that all owners of a possessory interest in the land concur with this proposed use.
  - l. Any other feature which contributes to the final appearance of the land subsequent to restoration measures.
6. The Contractor shall furnish, together with the 6 copies of the reclamation plan, completed forms No. SM-2 and SM-6 issued by the Department of Natural Resources.
  7. The Contractor shall submit the original tracing of the plan or a reproducible of the plan for all borrow, quarry and pit sites. These approved plans shall be submitted to the Engineer within 10 Days after receiving approval of the plan. If the plan is approved as noted, it shall be modified by the Contractor before submission of the plan to the Engineer.
  8. When the reclamation plan is approved by the Engineer for sites involving more than 3 acres of disturbed land, or resulting in pit walls more than 30 feet high and steeper than a one to one slope, the Contractor will be allowed to operate under an operating permit subject to continuing approval and inspection by the Engineer and the Department of Natural Resources.
  9. Form No. SM-3 shall be completed by the Contractor and forwarded to the Department of Natural Resources through the Engineer upon completion of all seeding and planting.  
Form No. SM-7 shall be completed by the Contractor and forwarded to the Department of Natural Resources through the Engineer immediately upon completion of mining operations and site reclamation.  
Forms No. SM-3 and SM-7 are not required on sites of 3 acres or less of disturbed land and resulting in pit walls 30 feet high or less and a one to one or flatter slope.
  10. The Engineer will notify the Contractor if environmental requirements must be satisfied. To meet the requirements, the Contractor shall furnish a completed environmental checklist in the SEPA guidelines. The SEPA checklist will then be reviewed under existing procedures. Any landfill or excavation of 100 cubic yards or less is exempt from SEPA requirements.

### **3-03.3 CONSTRUCTION REQUIREMENTS**

#### **3-03.3(1) EROSION CONTROL**

All sites owned or furnished by the Contractor shall, if specified on a reclamation plan approved by the Engineer, require erosion control in accordance with Section 8-01 or landscaping in accordance with Section 8-02.

#### **3-03.3(2) DEVIATIONS FROM APPROVED RECLAMATION PLANS**

Reclamation of any site which deviates from the approved reclamation plan will not be permitted without first revising the approved reclamation plan and obtaining the approval of the Engineer. The Contractor shall allow 5 Working Days review time by the Engineer.

#### **3-03.4 RESERVED**

#### **3-03.5 PAYMENT**

For Contractor-provided sites, all costs involved in complying with the requirements of an operating permit acquired from the Department of Natural Resources, complying with the requirements of a reclamation plan approved by the Engineer, or with reclaiming sites to the full extent required by the Contract shall be included in the costs of other Bid items of work involved in the Work.