

SP235 (03-3106-26-08)

*(Use this Section when Agency provided material sources or disposal sites are to be included in projects. If more than one material source or disposal site is required of if a combination of material sources and disposal sites will be listed, subsections may be copied and edited to reflect the conditions/requirements of each source or site.)*

**SECTION 00235 - AGENCY PROVIDED MATERIAL SOURCES AND DISPOSAL SITES**

Section 00235, which is not a Standard Specification, is included in this Project by Special Provision.

**Description**

**00235.00 Scope** - This work consists of utilizing Agency provided prospective or mandatory material sources and prospective or mandatory disposal sites as the Contractor elects or as required for the construction of the Contract.

*(Use the following subsection .01's with Agency provided material sources. Remove the "(s)" and "(are)" if only one source is listed. Remove the parentheses and "is" if multiple sources are listed. Copy the list for multiple sources. Fill in the blanks with the appropriate information. Modify as needed. Delete what does not apply. Use the source number bullet only if the source is an ODOT identified material source with a recognized source number, otherwise delete.)*

*(Use this subsection .01 for prospective sources.)*

**00235.01 Material Source Specific Requirements** - The following prospective material source(s), for the production of           (list the specific aggregate products that are allowed) or state "for all the aggregates products for this Project"          , that may warrant investigation and consideration for use by the Contractor on this Project is (are) as follows:

- **Source Number** - OR- \_\_\_\_\_
- **DOGAMI Number** - \_\_\_\_\_
- **Location** - Approximately \_\_\_\_\_ miles           (insert location and direction from the project or closest town here)           on Highway \_\_\_\_\_ in the \_\_\_\_\_ ¼ of Section \_\_\_\_\_, T.           (insert N. or S.)          , R.           (insert W. or E.)           W.M.
- **Access** - Adjacent           (east, west, north, south)           of MP \_\_\_\_\_ of the \_\_\_\_\_ Highway,           (if off the highway a distance, include travel directions here)
- **Available Area for Equipment Setup, Stockpiling, and Processing Aggregate:**
  - **Existing** - \_\_\_\_\_ acres
  - **Development** - \_\_\_\_\_ acres

If the contractor elects not to utilize the above listed source(s) 00160.60 applies.

*(Use this subsection .01 for mandatory sources. Delete the subsection number and title if the subsection number and title are included above.)*

**00235.01 Material Source Specific Requirements** - The following mandatory material source(s) , for the production of     (list the specific aggregate products that are allowed) or state "for all the aggregates products for this Project"     , is (are) to be used on this Project:

- **Source Number** - OR- \_\_\_\_\_
- **DOGAMI Number** - \_\_\_\_\_
- **Location** - Approximately \_\_\_\_\_ miles     (insert location and direction from the project or closest town here)     on Highway \_\_\_\_\_ in the \_\_\_\_\_ ¼ of Section \_\_\_\_\_, T.     (insert N. or S.)     , R.     (insert W. or E.)     W.M.
- **Access** - Adjacent     (east, west, north, south)     of MP \_\_\_\_\_ of the \_\_\_\_\_ Highway,     (if off the highway a distance, include travel directions here)
- **Available Area for Equipment Setup, Stockpiling, and Processing Aggregate:**
  - **Existing** - \_\_\_\_\_ acres
  - **Development** - \_\_\_\_\_ acres

*(Use the following subsection .02's with Agency provided disposal sites. Remove the "(s)" and "(are)" if only one site is listed. Remove the parentheses and "is" if multiple sites are listed. Copy the list for multiple sites. Fill in the blanks with the appropriate information. Modify as needed. Delete what does not apply. Use the source number bullet only if the site is an ODOT identified material site with a recognized source number, otherwise delete.)*

*(Use this subsection .02 for prospective disposal sites.)*

**00235.02 Disposal Site Specific Requirements** - The following prospective disposal site(s) for     (list acceptable material)     , as long as the material does not contain hazardous substances, that may warrant investigation and consideration for use by the Contractor on this Project is (are) as follows:

- **Source Number** - OR- \_\_\_\_\_
- **Location** - Approximately \_\_\_\_\_ miles     (insert location and direction from the project or closest town here)     on Highway \_\_\_\_\_ in the \_\_\_\_\_ ¼ of Section \_\_\_\_\_, T.     (insert N. or S.)     , R.     (insert W. or E.)     W.M.
- **Access** - Adjacent     (east, west, north, south)     of MP \_\_\_\_\_ of the \_\_\_\_\_ Highway,     (if off the highway a distance, include travel directions here)
- **Disposal Quantity Limit** -     (Insert the quantity that can be disposed of in this site if there is some sort of a limit or insert the required quantity if mandatory.)
- **Available Area for Material Disposal of Waste Material:**
  - **Existing** - \_\_\_\_\_ acres
  - **Development** - \_\_\_\_\_ acres

If the contractor elects not to utilize the above listed disposal site(s) ~~00330.41(a-5) applies~~ and unless otherwise specifically allowed and subject to the requirements of 00280.03, dispose of materials, classed as waste materials in 00330.41(a-3) and 00330.41(a-4), outside and beyond the limits of the Project and Agency controlled property according to 00290.20. Do not dispose of materials on wetlands, either public or private, or within 300 feet of rivers or streams.

*(Use this subsection .02 for mandatory disposal sites. Delete the subsection number and title if the subsection number and title are included above.)*

**00235.02 Disposal Site Specific Requirements** - The following mandatory disposal site(s) for           (list acceptable material)           , as long as the material does not contain hazardous substances, is (are) to be used on this Project:

- **Source Number** - OR- \_\_\_\_\_
- **Location** - Approximately \_\_\_\_\_ miles           (insert location and direction from the project or closest town here)           on Highway \_\_\_\_\_ in the  $\frac{1}{4}$  of Section \_\_\_\_\_, T.           (insert N. or S.)           , R.           (insert W. or E.)           W.M.
- **Access** - Adjacent           (east, west, north, south)           of MP \_\_\_\_\_ of the \_\_\_\_\_ Highway,           (if off the highway a distance, include travel directions here)
- **Disposal Quantity Limit** -           (Insert the quantity that can be disposed of in this site if there is some sort of a limit or insert the required quantity if mandatory.)
- **Available Area for Material Disposal of Waste Material:**
  - **Existing** - \_\_\_\_\_ acres
  - **Development** - \_\_\_\_\_ acres

[If material does contain hazardous substances do not dispose of the material in the mandatory disposal site. Dispose of material that contain hazardous substances according to 00290.20.](#)

**00235.03 Laws** - Conduct operations within the material source/disposal site according to all applicable State, county, and federal laws including mining and fire laws. Provide, operate, and maintain wildland fire fighting equipment appropriate for the current fire levels on-site at all times during all material source/disposal site operations.

*(In subsection .04, fill in the blank with the appropriate permits/plans listed below. Delete the list when finished.)*

- Department of Geology and Mineral Industries (DOGAMI) Permit
- Operating and Reclamation Plan
- County Land Use Permit
- Intergovernmental Agreement
- Cooperative Improvement Agreement
- Bureau of Land Management (BLM) Permit
- United States Forest Service (USFS) Permit
- Division of State Lands (DSL) Permit
- Oregon Department of Fish and Wildlife (ODFW) Permit
- Oregon Department of Environmental Quality (DEQ) Permit

**00235.04 Permits** - Copies of the \_\_\_\_\_ and the material source or disposal site narratives for the material sources/disposal sites are available for inspection at the Project Manager's office. The Contractor shall examine and become familiar with all documents. Operations within the material source/disposal site shall conform to the stipulations and conditions of these documents and to all of the requirements of the development plan and these Special Provisions.

**00235.05 Pre-Work Meeting** - Before occupying the material sources/disposal sites, hold a pre-work meeting at each material source/disposal site. Include the following owners or representatives at each meeting:

*(In the bullets below, fill in the blanks with the contact name(s) and phone number(s) as appropriate. Delete the bullets that do not apply.)*

- Engineer
- ODOT Project Geologist
- ODOT Engineering Geologist
- U.S. Forest Service representative(s) \_\_\_\_\_
- BLM representative(s) \_\_\_\_\_
- County representative(s) \_\_\_\_\_
- Other \_\_\_\_\_

*(In the paragraph below, fill in the blank with the appropriate source information listed below. Remove "(s)" or parentheses as appropriate. Delete the list when finished.)*

- |                                |                               |
|--------------------------------|-------------------------------|
| project boundary               | disposal area(s)              |
| excavation area(s)             | reject fines stockpile        |
| scalpings stockpile            | oversize storage area         |
| overburden storage area(s)     | no work area(s)               |
| storm-water control berm(s)    | safety berm(s)                |
| slash disposal area            | log deck                      |
| bench access road(s)           | stockpile and processing area |
| access road(s)                 | sediment fence(s)             |
| straw bale sediment barrier(s) |                               |

Coordinate material source/disposal site occupancy with the Engineer. The material source/disposal site \_\_\_\_\_ shall be as shown and as staked. Do not operate beyond the material source/disposal site boundary, Project boundary or no work area(s) as shown and as staked unless otherwise directed.

*(In subsection .06, fill in the blank with the appropriate source information listed below. Remove "(s)" or parentheses as appropriate. Delete the list when finished.)*

- |                                |                               |
|--------------------------------|-------------------------------|
| project boundary               | disposal area(s)              |
| excavation area(s)             | reject fines stockpile        |
| scalpings stockpile            | oversize storage area         |
| overburden storage area(s)     | no work area(s)               |
| storm-water control berm(s)    | safety berm(s)                |
| slash disposal area            | log deck                      |
| bench access road(s)           | stockpile and processing area |
| access road(s)                 | sediment fence(s)             |
| straw bale sediment barrier(s) |                               |

**00235.06 Source Development** - Provide all proposed development plan and specification changes in writing and obtain written approval before making changes to the material source/disposal site \_\_\_\_\_.

Develop a site-specific Erosion and Sediment Control Plan for each material source/disposal site according to 00280.02 and submit it to the Engineer at or before the pre-work meeting. Construct storm-water control berm(s) as shown and as needed to control runoff. Do not allow any materials, including sediments, aggregate or crushing by-products to enter into waterways or wetlands.

Develop a site-specific Pollution Control Plan for each material source/disposal site according to 00290.30(b), and submit it to the Engineer at or before the pre-work meeting. Include the following details:

- Do not discharge waste or by-product if it contains any substance in concentrations that could contaminate soils or result in harm to fish, wildlife, or water sources.
- Store bag-house sludge, lime, and all potentially hazardous materials and solid waste in a manner that prevents seepage into the ground or groundwater sources. Lined sumps or pits are allowable options for storage. If pits or sumps are used, construct adequate berms or provide other measures to prevent breaching of the pits or sumps.
- For materials capable of causing water pollution if discharged, locate storage facilities in an area that prevents spillage into waterways or wetlands.

*(Use the following requirements for a Dust Control Plan when the proposed operations will be in a dust sensitive area such as near a stream or wetland.)*

Develop a site-specific Dust Control Plan and submit it to the Engineer 10 calendar days before the pre-work meeting. Include the following details:

- Measures that will be taken to prevent dust from settling heavily in the riparian areas adjacent to \_\_\_\_\_ Creek.
- Measures that will be taken to ensure the operation will meet Oregon DEQ air quality permit requirements outlined in the General Air Contaminant Discharge Permits for portable crushers and asphalt batch plants #AQGP-007 and #AQGP-008 and all other applicable laws and regulations.
- Name and contact information for the Contractor's on site person responsible for ensuring processing, crushing and batching activities are in compliance with the permits and the Dust Control Plan.

## **Construction**

**00235.40 General** - All vehicles and equipment, upon entering the site for the first time, and each subsequent time if the vehicle has left the roadway outside the construction project limits, shall be steam cleaned of all debris (soil, dirt, plant parts, and vegetative matter) before being brought back to the site. Notify the Engineer before moving each vehicle onto the site. Certify, in writing, that the equipment has been steam cleaned.

**00235.41 Restrictions and Protection of Resources** - Contractor operations within the material source/disposal site are limited to the following:

- Protect cultural resources according to 00290.50.
- Clear trees and shrubs and strip and stockpile soil overburden between September 1 and March 15.
- If operations within the source are between March 15 and August 31, notify the Engineer 14 calendar days prior to source occupancy the source must be surveyed for nesting birds by An ODOT biologist will survey the source for nesting birds and relocate the nests if they are present.
- Do not utilize, contaminate, or disperse material from existing stockpiles. If existing stockpiles interfere with the Contractor's operations, move the stockpiles to other locations within the material source/disposal site area as directed, at no additional cost to the Agency.

*(Use the following bullet when specific restrictions are addressed in land use or other permits.)*

- Limit mineral and aggregate extraction, processing, equipment operation activities including drilling, and disposal activities to the hours of \_\_\_:00 a.m. to \_\_\_:00 p.m., Monday through Saturday unless modifications to these hours are requested in writing and approved by the Engineer. Do not conduct any operation on Sundays or legal holidays.

*(Use the following subsection (a) when county owned sources are utilized. Fill in the blank of the first paragraph with the name of the county. Fill in the blanks of the second paragraph with the name of the contact person(s), the county name, and the phone number. Fill in the blank of the third paragraph with the royalty fee amount and unit, for example cubic yard, ton. Be sure to include an anticipated item to pay the county royalty fee.)*

**(a) County Owned Sources** - This material source/disposal site is under Agency control through an agreement with the \_\_\_\_\_ County Department of Public Works. Operations within this material source/disposal site shall conform to the requirements of this agreement, the development plans, and these Special Provisions.

For information contact \_\_\_\_\_ or \_\_\_\_\_ at the \_\_\_\_\_ County Department of Public Works, at \_\_\_\_\_, to make arrangements to visit the site.

A \$\_\_\_\_\_ per \_\_\_\_\_ (unit) royalty charge for all material removed from the prospective source will be deducted from monies due the Contractor in the progress payments.

*(Use the following subsection (b) on USDA Forest Service owned sources. Use the appropriate agreement. Delete the agreement that does not apply. Fill in the*

*administrative/road use fee amount and unit in the second paragraph. Be sure to include an anticipated item to pay the fee.)*

**(b) USDA Forest Service Owned Sources** - This material source/disposal site is under Agency control through a "Contract for Sale of Mineral Material" ("Special Use Permit") agreement with USDA Forest Service. Operations within this material source/disposal site shall conform to the requirements of this agreement, the development plan, and these Special Provisions.

A \$ \_\_\_\_\_ per \_\_\_\_\_(unit) administrative and road use fee charge for material removed from the prospective source or administrative and road use fee charge for disposal of material will be deducted from monies due the Contractor in the progress payments.

*(Use the following subsection (c) on BLM owned sites.)*

**(c) Bureau of Land Management Sources** - This material source/disposal site is under Agency control through a "Free Use Permit" or a "Temporary Use Permit" agreement with the Bureau of Land Management. Operations within this material source/disposal site shall conform to the requirements of this agreement, the development plan, and these Special Provisions.

*(Use the following subsection (d) on privately owned sites. Fill in the appropriate property owner in the blank of the first paragraph. Fill in the property owner contact and phone number in the second paragraph. Fill in the royalty fee amount and unit in the third paragraph. Be sure to include an anticipated item to pay the royalty fee.)*

**(d) Privately Owned ODOT Controlled Sources** - This material source/disposal site is under Agency control through a lease agreement with \_\_\_\_\_. Operations within this material source/disposal site shall conform to the requirements of this lease agreement, the development plans, and these Special Provisions.

For information contact \_\_\_\_\_ at \_\_\_\_\_, to make arrangements to visit the site.

A \$ \_\_\_\_\_ per \_\_\_\_\_(unit) royalty charge for all material removed from the prospective source will be deducted from monies due the Contractor in the progress payments.

**00235.42 Source/Site Setup** - Before proceeding with work in the material source/disposal site, the following apply:

*(Use the following bullet when fences are required to secure No Work Areas. Fill in the blanks with the length, type, and location of fencing. Add additional bullets as needed.)*

- Construct approximately \_\_\_\_\_feet of type \_\_\_\_\_ fencing along \_\_\_\_\_ the no work area as shown and as staked. Do not disturb the no work area.

**(a) Access:**

***(Use the following bullet when road access is to be constructed. Fill in the blank with the source number otherwise delete the parenthetical text.)***

- (In source number \_\_\_\_\_)Develop and maintain an access road from the developed stockpile and processing area to the newly developed excavation floor or from the \_\_\_\_\_ to the \_\_\_\_\_ as applicable. Construct this road with a 12 foot width and reasonably uniform grade, no steeper than a 16% grade (1V:6H), for access to the quarry floor. An approximate location for development of this road is shown on the sketch map. Determine the exact location in the field. Obtain the Engineer's approval before constructing the access road.

***(Use the following bullet when realignment and/or widening of an existing access road is required. Insert the road name or number in the first bullet blank and road name or access location in the second bullet blank.)***

- Minor realignment and widening of \_\_\_\_\_, to accommodate the Contractor's operations in the material source/disposal site, are anticipated. All activity related to the realignment or widening of material source/disposal site access road will be reviewed and approved by the Engineer before the Contractors work takes place.
- Routine road maintenance activities such as grading and watering of the access road does not need review or approval. Perform maintenance of the cattle guard(s) and gates on \_\_\_\_\_ as part of the routine maintenance. Maintain or develop drain dips, water bars, road crowning, in-slopes and out-slopes during road maintenance.

***(Use the following bullet when bench access roads are to be realigned and regraded.)***

- Realign and regrade or construct the bench access road as shown. Construct the road with a 12 foot width and a reasonably uniform grade, no steeper than 50% (1V:2H), for access to the upper bench by tracked vehicles.

***(Use the following bullet when a storm water berm is required.)***

- Using existing, loose and non-stockpiled material or clean soil or a combination of clean soil and rock, construct a storm-water berm(s). Grade and leave level, all areas of the material source/disposal site disturbed during construction of the storm-water berm(s). Construct the storm-water berm 3 feet high, with side slopes of 1V:2H. Provide erosion control protection for the storm-water berm by placing, with minimal amount of separation, 3 feet diameter and larger oversize material along the creek-side toe of the berm. Maintain a minimum 10 foot wide buffer strip between the oversize material of the storm water berm and the creek, as detailed on the cross sections. After completion of the berm, seed according to 00235.46.

***(Use the following two bullets when safety berms are required.)***

- Using existing, loose and non-stockpiled material or imported or clean soil or a combination of clean soil and rock, construct a safety berm along the top edge of the existing excavation or existing slopes as shown. Maintain a 10 foot buffer between the top edge of the excavation or slope and the toe of the safety berm. Construct the berm 3 feet high, with side slopes of 1V:2H.
- Place and arrange straw bales and or sediment fences as shown and according to Section 00280. Maintain a 10 foot buffer between the toe of the disposed of material slopes and the straw bales.

**(b) Clearing and Grubbing** - Before stripping of overburden clear and grub all trees from within the excavation area, disposal area, and from the area to be developed for stockpile and processing as well as from the to be developed access roads. Place all logs in the log decks and other woody debris in the slash disposal area as shown.

**(c) Overburden** - Before excavating, including drilling and blasting when required or disposal activity, strip and stockpile all soil overburden from within the excavation/disposal area and from the area to be developed for stockpile and processing and the to be developed access road(s). Incorporate grass and small shrubs into the stockpiles. Do not remove grass or small shrubs from the overburden. Place stockpiles in the overburden storage area(s). Maintain a minimum 10 foot buffer strip between the toe of the overburden storage area(s) and the excavation area or disposal area. Store overburden stripped from the stockpile and processing area as shown, a minimum of 10 feet from the toe of the aggregate stockpiles. Smooth and contour overburden storage berms to form side slopes no steeper than 1V:2H.

*(Use the following subsection .43 when blasting is required.)*

**00235.43 Blasting** - Perform blasting operations according to Section 00335 except the perimeter controlled blasting described in 00335.40(a) is not required.

*(Use the following paragraph when blasting restrictions are required. Fill in the blanks with the appropriate times.)*

Restrict blasting to the hours of \_\_\_:00 a.m. to \_\_\_:00 p.m. Monday through Friday. Do not blast on Saturdays, Sundays, or legal holidays as defined in 00170.65.

*(When specific fire precautions are required, fill in the blank of the second sentence with the name and phone number of the appropriate interagency notification centers. If specific fire precautions are not required, remove the second sentence.)*

Notify the Engineer, and notify all adjacent residents and property owners that are within 1,250 feet of the blasting area, at least 48 hours before blasting. In addition, notify and obtain approvals from \_\_\_\_\_. Do not detonate shots until the person videotaping the shot is prepared, or until the Engineer gives approval to proceed.

*(Use the following "control ground vibrations" paragraphs when ground vibrations are anticipated and excessive vibration could impact structures, facilities or utilities.)*

**[ Begin "control ground vibrations" paragraphs ]**

Control ground vibrations and air blast pressures by using properly designed delay sequences and allowable charge weights per delay. Base the allowable charge weights per delay on ground vibration and air blast levels which will not cause damage. Establish allowable charge weights per delay by carrying out test blasts and measuring ground vibration and air blast levels. Perform test blasts according to 00335.40(f) modified as required to limit ground vibrations and air blast pressure to a level which will not cause damage. Notify adjacent property owners 48 hours prior to monitoring.

Monitor each blast with an approved seismograph located, as approved, at the nearest structure, facility or utility subject to blast damage. The seismograph used shall be capable of recording particle velocity for three mutually perpendicular components of vibration and air blast pressure in the range generally found with controlled and production blasting.

Do not allow air blast pressure to exceed the safe limit of 0.007 psi. Do not allow peak particle velocity of each component to exceed the safe limits of the nearest structure subject to vibration damage as follows:

<b>Structure</b>	<b>Maximum Peak Particle Velocity at the Structure (Inch/Second)</b>
Standard Construction Timber Frame, Brick, and Concrete Buildings	2.0
Reinforced Concrete Structures	4.0
Steel Structures	4.0
Buried Utilities	2.0
Wells and Aquifers	2.0
Green Concrete (Less than 7 days)	1.0

Provide a qualified vibration and air blast specialist that is approved by the Engineer that will:

- Confirm the ground vibration and air pressure limits.
- Interpret the seismograph and acoustic records to insure that the seismograph and acoustic data is effectively utilized in the control of the blasting operations with respect to the existing structures.

Furnish data recorded for each shot before the next blast that includes the following:

- Identification of instrument(s).
- Name of qualified observer and interpreter.
- Distance and direction of recording station from blast area.
- Type of ground at recording station and material on which the instrument is sitting.
- Maximum particle velocity of each component.
- Air blast pressure level(s).
- A dated and signed copy of photographic records of seismograph and acoustic readings.

*(Use the following bullet when blasting near wells and aquifers. Fill in the first and third blanks with the number of days required. Fill in the second blank with the location of the well or aquifer.)*

- Before blasting and within \_\_\_\_ days after blasting, measure water level or flow rate in the well located at \_\_\_\_\_. Sample and test water quality for nitrates and total coliform bacteria before blasting and again within \_\_\_\_ days after blasting. Collect water samples according to OAR 333-061-0335. Have water samples tested for nitrates and total coliform bacteria by an certified laboratory according to OAR 333-061-0330. Notify the well owner 48 hours before conducting the water measurement, sampling, and testing.

*[ End "control ground vibrations" paragraphs ]*

**00235.44 Source/Site Operations** - The following apply during material source/disposal site operations:

- Construct slopes, bench(es), and floors of the excavation/disposal area(s) as shown.

*(Use the following sentence when slopes are constructed or excavated at 1V:1 1/2H or flatter. Delete the sentence with steeper slopes.)*

Roughen the face of slopes by running tracked equipment up and down the slope before seeding and mulching.

*(Use the following bullet when lift height is required. Insert lift height in the blank.)*

- Place material in lifts of no more than \_\_\_\_ feet, and as shown.
- To control dust, apply water to material source/disposal site access, haul road(s), crushing operations, and disposal operations.
- Stockpile scalplings and reject fines in separate and accessible stockpiles as shown.

*(Use the following bullet when offering a site for disposal.)*

- Place only material that is identified as acceptable for this site in the disposal area as shown. Maintain a minimum 10 feet wide buffer strip between the toe of the disposal area and the property boundary. Smooth and contour the disposal area to form side slopes no steeper than 1V:2H.

*(Use the following bullet when an existing road is to be maintained. Fill in the blank with the road name.)*

- If the Contractor chooses to utilize this material source/disposal site for disposal of material, maintain the condition of \_\_\_\_\_ at all times. Provide traffic control related to ingress and egress movements in a manner that allows a safe work zone and safe passage of vehicles.

*(Use the following bullet when cattle guards or livestock gates are present. Fill in blank with the appropriate location(s).)*

- Maintain the cattle guard and livestock gate \_\_\_\_\_ into the source at all times.

*(Use the following bullet when cattle guards are installed. Fill in the blank with the appropriate locations(s). Be sure to include cattle guard details on the project detail sheet(s).)*

- Construct cattle guard(s) at \_\_\_\_\_ according to details shown.

**00235.45 Source/Site Clean-up** - The following apply at the completion of operations:

*(Remove "(s)" when only one exception is required. Remove the parentheses when additional exceptions are added.)*

- Leave no loose material on the site exceeding 1 foot diameter, except as noted below. Process existing oversize material, and all material loosened in the source by the Contractor that meets quality requirements, with the following exception(s):

*(Fill in the blank with the appropriate quantity. Add additional bullets as needed.)*

- A maximum of \_\_\_\_\_ cubic yards of oversize material with a maximum dimension of 2.5 feet may be stockpiled in the material source/disposal site. Consolidate stockpile material as shown.
- Place all excess produced aggregate remaining at the end of operations in separate and accessible stockpiles on Agency owned or controlled property in areas designated by the Engineer, at no additional cost to the Agency.
- Leave the material source/disposal site haul road and bench access road open. Do not rip or block the roads except a few large boulders may be used to block off access to the upper bench areas.

*(Use the bullet below if applicable. Modify as needed.)*

- Redistribute the stockpiled overburden over the disposed material to a uniform depth as shown.
- Pile and burn all construction slash and combustible debris resulting from use and development of the source, including the preexisting refuse identified at the pre-work meeting, even if it is from outside the material source/disposal site project boundary except for grass and small shrubs that are incorporated into the overburden. Comply with all open burning regulations in effect at the time of source occupancy. If burning is not allowed, all slash and combustible debris becomes the property of the Contractor, to be treated as noncombustible and removed from material source/disposal site.

*(Use the following bullets and paragraph when placing reject fines on slope. Fill in the horizontal blank with appropriate number. Modify as needed.)*

- Before final seeding and mulching, do the following:
  - Place reject fine material against the excavated slope as shown to construct the final 1V:\_\_\_H slope.
  - Cover the newly constructed slope with reject fines with at least 6 inches of scalping material.
  - Evenly distribute the stockpiled overburden over the slope(s).

If inadequate reject fines exist to completely construct the slope(s) utilize additional scalplings over top the reject fines to finalize construction of the slopes prior to the redistribution of overburden.

#### **00235.46 Seeding:**

*(In the bullet below, fill in the blank with the appropriate area information listed below. Remove "(s)" or parentheses as appropriate. Delete the list when finished.)*

disposal area(s) (if being reclaimed in the operation)  
 excavation area(s) (if being reclaimed in the operation)  
 overburden storage area(s)  
 storm-water control berm(s)  
 safety berm(s)  
 soil/scalplings stockpile(s) as directed  
 bench(es) and access road(s)  
 other

- Stabilize the \_\_\_\_\_ in addition to other areas within the site disturbed by the Contractor's operations, by seeding, mulching, and tackifying, as directed.
- Provide the following seed mixture:

*(Insert seed mix and application rates here. Note: The seed mixture is almost always site specific. We do have four Agency approved generic lists based on geographic provinces that can be used (not shown here), but depending on what you are trying to accomplish, such as erosion control, wildlife forage, grazing, reforestation or something else, the mix may need to be developed specifically for the site. This can be accomplished by contacting a grass seed company and asking for assistance in developing a mix.)*

*(In the following bullet, include the second sentence when clover or alfalfa is required, otherwise remove it.)*

- Use only certified weed free seed. Provide copies of the certification to the Engineer. Inoculate the clover and alfalfa prior to incorporation into the seed mixture.
- Provide straw mulch according to 01030.15(b).
- Apply a commercial straw mulch tackifier according to the manufacturer's directions and at the recommended rate.

- Apply seed and mulch according to Section 01030.
- If conditions allow and the Contractor chooses, the area may be stabilized by applying seed using a range drill with a roller attachment. All areas seeded with the range drill and roller will not need to be subsequently covered with mulch and tackifier.
- All variations to these requirements require written approval by the Engineer.

**00235.47 Source/Site Vacating** - Before vacating the material source/disposal site the following apply:

*(Rewrite the following bullet as necessary to accommodate the disposal site requirements.)*

- Remove all structures, noncombustible debris, and equipment from the material source/disposal site, even if it was pre-existing, except for grass and small shrubs incorporated into the overburden.
- Remove solid waste and hazardous material from the site and dispose of properly. These include, but are not limited to, bag-house sludge or fines, lime, excess liquid asphalt, rejected and excess asphalt mixture, plant cleanings, materials placed in sumps, tires, pipes, belts, screens and truck cleanings. Provide documentary evidence of proper disposal and verify the amount of material removed.
- If a spill or dumping has occurred or if a spill or dumping is suspected to have occurred, the Engineer will sample and test underlying material after all contaminated material is removed to assure compliance with DEQ regulations and to make sure that no material residue has been left behind. If test results show that material residue remains, perform additional cleanup measures according to DEQ requirements.
- Hold a post-work meeting at the material source/disposal site to evaluate material source/disposal site rehabilitation work. Include the following owners or representatives:

*(Fill in the blanks with the contact name(s) and phone number(s) as appropriate. Delete bulleted items that do not apply.)*

- Engineer
- ODOT Project Geologist
- ODOT Engineering Geologist
- U.S. Forest Service representative(s) \_\_\_\_\_
- BLM representative(s) \_\_\_\_\_
- County representative(s) \_\_\_\_\_
- Other \_\_\_\_\_

**Measurement**

**00235.80 General** - No measurement of quantities will be made for work performed under this Section.

### **Payment**

**00235.90 General** - No separate or additional payment will be made for work performed under this Section. Payment will be included in payment made for the appropriate items under which this Section is required.