

SECTION 855

REVEGETATION

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855.01 REVEGETATION FOR SURFACE STABILIZATION

Immediately following and during some construction activities, the Owner's representative will identify areas requiring seeding/sodding or stabilization by a method to prevent erosion. These will include:

- a) Extensive cuts in overburden material. These areas shall be hydro seeded within three calendar days of a cut being prepared and the work shall be carried out as directed by the Owner's representative;
- b) Stream crossing sites. Topsoil placement, sodding, and shrub or tree plantings may be required as directed by the Owner's representative.
- c) All remaining disturbed areas, designated, will be hydro seeded or sodded as soon as possible in accordance with the TI Specification Book - Section 632- Hydroseeding, Section 634 - Soil for Hydroseeding, Section 635- Lime for Hydroseeding, and Section 633- Sodding.

Where the potential for erosion exists, as on steep slopes, long slopes, or soft erodible type material, an appropriate erosion control material shall be applied to the surface. This can be in the form of an erosion control fabric or a sprayed on erosion control product which is accepted by the Owner's representative and which will be in addition to hydroseeding as indicated in the contract documents or as directed by the Owner's representative. Also see Section 845.03 (Erosion and Silt Control Measures).

The Owner's representative will inspect all revegetated areas periodically to ensure that adequate results have been achieved. During adverse dry conditions watering of revegetated areas shall be carried out as directed by the Owner's representative. Additional revegetation work will be undertaken upon direction from the Owner's representative if the desired results are not achieved.

855.02 PLANTING OF TREES AND SHRUBS

855.02.01 GENERAL INSTRUCTIONS

The planting of trees will be carried out in those areas identified in the contract documents. The types of species, quantity, size, and exact location will be specified in the contract documents or otherwise the Contractor will be advised by the Owner's representative. Nursery stock, (purchased trees and shrubs in pots), or site stock, (trees and shrubs removed from a site and held over or planted out directly), may be used as specified in the contract documents or as directed by the Owner's representative.

Native species of trees and shrubs are generally preferred, however, non-native species may be specified where, for example, a faster growing species or a disease resistant species or variety is needed.

The following species of trees are recommended:

| SCIENTIFIC NAME | COMMON NAME | SCIENTIFIC NAME | COMMON NAME |
|---------------------|----------------|---------------------|------------------------------|
| PICEA | SPRUCE | ACER SPICATUM | MOUNTAIN MAPLE |
| ABIES BALSAMEA | FIR | ACER RUBRUM | RED MAPLE |
| BETULA PAPYRIFERA | BIRCH | ACER PLATANOIDES | NORWEGIAN MAPLE |
| SORBUS | DOG BERRY | SALIX DISCOLOR | WILLOW |
| LARIX LARICINA | LARCH, JUNIPER | SALIX BEBBIANA | WILLOW |
| LARIX KAEMPFERI | JAPANESE LARCH | POPULUS TREMULOIDES | TREMBLING ASPEN, POPLAR, APS |
| PRUNUS PENSYLVANICA | PIN CHERRY | POPULUS BALSAMEA | COTTONWOOD, BALSAM POPLAR |

The following species of large shrubs are recommended:

| SCIENTIFIC NAME | COMMON NAME | SCIENTIFIC NAME | COMMON NAME |
|----------------------|----------------------|--------------------|---------------------------------|
| AMELANCHIER | CHUCKLEY PEAR | CORYLUS CORNUTA | HAZELNUT |
| VIBURNUM CASSINOIDES | NORTHERN WILD RAISON | ARONIA MELANOCARPA | EASTERN CHOKEBERRY, CHOKECHERRY |
| ALNUS CRISPA | ALDER | ARONIA PRUNIFOLIA | EASTERN CHOKEBERRY, CHOKEBERRY |
| CORNUS STOLONIFERA | RED OSIER DOGWOOD | | |

The following species of small shrubs are recommended:

| SCIENTIFIC NAME | COMMON NAME | SCIENTIFIC NAME | COMMON NAME |
|------------------------|------------------------|-----------------|----------------|
| MYRICA GALE | SWEET GALE, BOG MYRTLE | SAMBUCUS PATENS | RED ELDERBERRY |
| RHODODENDRON CANADENSE | RODORA | ROSA NITIDA | WILD ROSE |

| | | | |
|-------------------------|----------------|-------------------|---------------|
| NEMOPANTHUS MUCRONATA | MOUNTAIN HOLLY | ROSA VIRGINIANA | WILD ROSE |
| VIBERNUM EDULE | SQUASHBERRY | RUBUS IDAEUS | RED RASPBERRY |
| CHAMAEDAPHNE CALICULATA | LEATHERLEAF | SPIRAEA LATIFOLIA | MEADOWSWEET |

855.02.02 PLANTING METHODS AND MAINTENANCE

The Contractor is referred to the Manual for Native Plant Material Recovery, available from the Department of Transportation and Infrastructure, for general information and recommended practices for the removal of trees and shrubs for either planting out directly or holding over for subsequent planting, and other aspects of care and maintenance.

All trees and shrubs do best when planted in early spring prior to the buds opening, but may also be successfully planted in late fall during their dormancy period. While it is possible to plant trees and shrubs at any time of the year, a regular watering program prepared by the Contractor and accepted by the Owner's representative to reduce or prevent mortalities is required during the active growing period. A watering program is required for all planted stock (nursery stock or site stock) in the first year. This should commence as soon as active growth begins, and as determined by the prevailing weather conditions and dryness of the soil throughout the growth season. Watering and other necessary maintenance such as the provision of staking or supports, pruning, mulching, etc. is the responsibility of the Contractor and no extra compensation will be paid for these items.

855.02.03 PAYMENT AND WARRANTY

Measurement for payment shall be by the number of individual trees of the specified species and size planted. The Contractor is responsible for preventing mortalities in planted stock. Trees and shrubs which die within 18 months of being planted shall be replaced by the Contractor at no additional cost to the Owner.