

PART 1 - GENERAL

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| <u>1.1 Related Sections</u> | .1 | Section 01 74 21 - Construction/Demolition Waste Management And Disposal. |
| | .2 | Section 31 23 10 - Excavating and Backfilling. |
| | .3 | Section 31 32 21 - Geotextiles. |
| <u>1.2 Measurement Procedures</u> | .1 | Core Stone: the existing rock ballast stones will be recycled as granular backfill and core stones as shown on drawings. The cost for this work will be included in the item for payment under Section 01 74 21 - Construction/Demolition Waste Management and Disposal. |
| | .2 | Filter Stone (400-800kg) to be measured in metric tonnes (t) of material supplied and acceptably placed in the works to the lines and grades specified. |
| | .3 | Armour Stone (2-6 Tonnes) to be measured in metric tonnes (t) of material supplied and acceptably placed in the works to the lines and grades specified. |
| | .4 | Mobilization/demobilization of equipment will not be measured for payment. |
| | .5 | Construction and maintenance of haul roads will not be measured for payment. |
| | .6 | Weighing will not be measured for payment but shall be considered as incidental to the work. |
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- 1.3 Samples .1 Inform the Departmental Representative of proposed sources of materials and provide access for sampling at least two (2) weeks prior to commencing work. Forward prepaid samples of material to be used to testing laboratory when directed by the Departmental Representative for approval. Samples to be representative of quarry.

PART 2 - PRODUCTS

- 2.1 Materials .1 Rock materials:
- .1 To be granitic or basaltic rock that is of approved quality, sound, hard, dense, angular, resistant to weathering and salt water, free from overburden, spoils, and organic material. Free from cracks, seams or other defects which may impair durability; specific gravity minimum 2.6; slate, shale, and sandstone not acceptable. There will be no intermixing of different colours or types of rock when stone is obtained from different sources.
 - .1 Filter layer stone:
 - .1 Greatest dimensions of each stone not to exceed two times least dimension.
 - .2 Filter stone to be in the following size ranges as indicated on plan: 400 to 800 kg
 - .2 Armour stone:
 - .1 Greatest dimension of each stone not to exceed two times least dimension.
 - .2 Stone sizes to be in range of 2000 kg to 6000 kg as shown.
 - .3 The average size of the armour rocks being placed will be in the mid range of accepted gradation which will ensure that there is a uniform gradation of stone across the size range. The contractor will arrange the placement of stone to ensure that he has a proper gradation not being high or low.
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- .2 Control of gradation shall be by visual and mechanical inspection. Any difference of opinion between the Departmental Representative and the Contractor shall be resolved by dumping and checking the gradation of individual rocks taken at random. Mechanical equipment, a sorting site and labour needed to assist in checking gradation shall be provided, at no additional cost by the Contractor.
- .3 Do not carry more than one category of filter stone or armour stone in the same truck load.

PART 3 - EXECUTION

3.1 Haul roads

- .1 Contractor shall be solely responsible to construct and maintain haul roads.
- .2 Construction and maintenance of turning areas and laydown areas shall be considered incidental to the work.
- .3 The Contractor is to restore existing haul roads to original condition prior to use at no additional cost.
- .4 The Contractor is to repair to original condition all roads, streets and Provincial Park roads which are deemed by the Departmental Representative to have been damaged directly as a result of the specified work, at no additional cost.

3.2 Core

- .1 Place core material to lines, grades and dimensions as indicated.
 - .2 Above elevation Chart Datum, do not extend core material for breakwater more than 5 m beyond filter and armour protection.
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3.3 Filter and
Armour Material

- .1 Place filter and armour material to lines, grades and dimensions indicated.
- .2 Material may be placed with the aid of mechanical means or other approved method subject to Departmental Representative's review and approval. End dumping onto sloped areas will not be permitted.
- .3 Contractor will choose his stones and place them in such a way that the whole structure will be bonded and consolidated to as great an extent as nature or rock will allow.

3.4 Tolerances

- .1 Completed component layers to be within following tolerances of lines and grades as indicated:
 - .1 Core: plus or minus 50 mm.
 - .2 Filter: plus or minus 100 mm.
 - .3 Armour: plus or minus 200 mm.
- .2 The Contractor shall be responsible to replace any core, filter and armour stone lost due to storms or tidal erosion.