PART 1 - General

1.1 Related Sections

.1 This Section specifies requirements for Armour Stone for Shoreline Protection to dimensions indicated.

1.2 Related Work Specified Elsewhere

.1 Weigh Scales: Section 01 15 50

1.3 Source Sampling

.1 Inform Engineer of proposed source of materials and provide access for sampling immediately upon award of Contract. Forward prepaid, a sample of rock to be used to a testing laboratory as directed by Engineer for approval. Sample to be between 20 and 70 kg, representative of quarry and submitted immediately upon award of Contract.

1.4 Existing Coditions and Haul Roads

.1 It is important that persons intending to bid on work visit the site and ascertain what preparatory work will be required for the following:
.1 Preparation and maintenance of temporary roadway to and on the breakwater for the use of trucks, excavators, etc.

.2 Contractor shall be solely responsible for construction and maintanence of haul roads which shall be considered incidental to the Work.

1.5 Measurement For Payment

.1 Armour stone to be measured in tonnes of material supplied and acceptably placed.

.2 Mobilization of equipment to be incidental to the work.

.3 Haulage to be incidental to the Work.

1.5 Measurement For Payment (Cont'd)

.4 Re-use of existing armour stone to be incidental to Work.

.5 Removal of existing beach gravel and re-use to be incidental to the Work.

PART 2 - Products

2.1 Materials: Rock

.1 Free from cracks, seams, or other defects which may impair durability; specific gravity minimum 2.64; slate and shale not acceptable for the armour stone material. [ASTM C 117].

.2 Armour Stone:
.1 Greatest dimensions of each stone not to exceed two (2) times least dimension.
.2 Armour Stone to be quarried stone, rough and angular in shape.
.3 Armour Stone shall vary in size between six (6) tonnes and eight (8) tonnes as shown on the plans.

PART 3 - Execution

3.1 Armour

.1 Place Armour Stone over the entire breakwater to the lines, grades, and dimensions shown on the plans.

.2 Place each unit individually using mechanical means to the lines, grades, and dimensions shown on the plans. Do not dump armour units. Commence placement at toe of slope and proceed up slope. Place each unit so that it is stable, secure on slope and supported by units below. Control placement of armour units so as to produce a uniform and continuous cover.

.3 Spaces between fitted armour units not to exceed 0.3 metres.

3.2 Tolerances

.1 Completed armour layer to be within 300 mm tolerance of lines and grades indicated.

3.3 Protection

.1 Take into account anticipated weather conditions and degree of exposure of site and tidal conditions in setting requirements for protection.

.2 Schedule and carry out construction so that each phase of work is not left exposed longer than necessary.

END