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**2.15 METAL BIN-TYPE RETAINING WALL**2.15.1 GENERAL2.15.1.1 **Description**

This work shall consist of the construction of metal bin-type retaining walls in accordance with these specifications and in conformity with the dimensions and designs shown on the plans, at locations as indicated and to lines and grades as established by the Consultant.

2.15.2 MATERIALS2.15.2.1 **Metal**

The Contractor shall supply all materials required for the construction of the retaining wall in accordance with Specification 5.30, Supply of Metal Bin Retaining Wall.

2.15.2.2 **Gravel Backfill Material**

The Contractor shall produce aggregate for the gravel material for backfill in accordance with Specification 3.2, Aggregate Production and Stockpiling for the Designation and Class of materials specified or as approved by the Consultant. The Contractor shall supply aggregate in accordance with Specification 5.2, Supply of Aggregate and haul aggregate in accordance with Specification 4.5, Hauling.

2.15.3 CONSTRUCTION2.15.3.1 **Preparation of Base**

Rough excavation for the site of the retaining wall shall be made to the elevation of the finished ground line at the face of the wall. Below this point, trenches 0.45 m in width shall be excavated for the four sides of the bins to depths established by the Consultant. All soft and yielding or other unsuitable material, when encountered at the base elevation, shall be removed and replaced with acceptable backfill. The base shall be thoroughly compacted and finished to a smooth, firm surface, in conformance with the lines and grades shown on the plans or as established by the Consultant.

2.15.3.2 **Assembly**

The base plates of the columns shall be accurately established to the line and grade necessary to provide a 1:6 batter. The retaining wall shall be erected by connecting the members with bolts, to form bins conforming with the dimensions shown on the plans. The columns shall be checked for batter during the placing of the members and before the assembly bolts are tightened.

Members shall be carefully handled during erection, and any which are damaged shall be removed and replaced with new members at the Contractor's expense.

2.15.3.3 **Backfill**

The backfill for the interior of the bins shall be approved gravel material, free from large boulders, placed

in layers not exceeding 0.15 m in depth, and compacted by means of mechanical tampers of a type satisfactory to the Consultant.

The backfill behind the wall shall be material common to the site where the structure is being erected, and shall progress with the filling of the bins at all times.

#### 2.15.4 MEASUREMENT AND PAYMENT

##### 2.15.4.1 **Excavation of Site**

Excavation for the site of the retaining wall and backfill behind the wall will be measured and paid for as provided in Specification 2.3, Grading.

##### 2.15.4.2 **Metal Bin Retaining Wall**

Metal bin-type retaining walls will be measured by the square metre of face area for each design depth of wall complete in place.

When more than one design of retaining wall is specified, the designs will be shown by letter suffixes following the pay item.

Payment will be made at the unit price bid per square metre for "Metal Retaining Wall" of design as specified. This payment will be full compensation for preparation of the base; supply and construction of the retaining wall; placement of backfill material; and all labour, equipment, tools, and incidentals necessary to complete the Work.

##### 2.15.4.3 **Supply of Aggregate**

Payment for the supply of aggregate will be made in accordance with Specification 5.2, Supply of Aggregate.