

SECTION 920

SLOPE PAVING

INDEX

920.01 SCOPE

920.02 MATERIALS

920.02.01 Concrete

920.02.02 Concrete Reinforcement

920.02.03 Wood

920.02.04 Selected Granular Base Course, GRANULAR "A"

920.02.05 Extra Backfill, Select Material Compacted - Granular

920.02.06 Extra Backfill, Compacted Ordinary Fill

920.03 PREPARATION

920.04 CONSTRUCTION PROCEDURE

920.05 MEASUREMENT FOR PAYMENT

920.06 BASIS OF PAYMENT

920.01 SCOPE

This specification covers the requirements for areas to be paved with concrete and adjacent areas to be backfilled and graded as indicated herein.

The slope paving system is defined as the concrete surface, adjacent two (2) metre wide strips of erosion control blankets, and the backfill layer immediately under these areas. Erosion control outside of this area shall be carried out and paid as per the appropriate Sections of Division 600 but shall be graded to promote drainage away from the structure and to blend into the surrounding topography.

920.02 MATERIALS

The materials for construction of slope paving and related work shall conform to this specification, the contract drawings and all relevant sections of the Specifications Book as outlined herein.

920.02.01 Concrete

Concrete shall be as specified on the drawings and shall meet the requirements of Section 904.

Concrete shall meet the criteria for substructure concrete and the slump shall be of such consistency that will permit placement, consolidation and finishing on a 1.5:1 slope.

920.02.02 Concrete Reinforcement

All reinforcing steel supplied shall conform to Section 905.

920.02.03 Wood

Material utilized for wood strips is not required to be preservative treated or structural grade. The material may be of second or third use providing it is reasonably straight, sound, and meets with the approval of the Engineer.

920.02.04 Selected Granular Base Course, GRANULAR "A"

Granular bedding materials shall be Selected Granular Base Course, GRANULAR "A" and shall conform to Section 315.

920.02.05 Extra Backfill, Select Material Compacted - Granular

Extra backfill select material compacted, shall conform to "Select Material Compacted - Granular" in Section 902.04.02.

920.02.06 Extra Backfill, Compacted Ordinary Fill

Extra backfill, compacted ordinary fill, shall conform to "Compacted Ordinary Fill" in Section 902.04.04.

920.03 SLOPE PAVING AREAS

In the case of a single structure, the width of the slope paved with concrete shall be equal to the superstructure width including the superstructure overhang as shown in the contract drawings.

For twin structures, where the clear gap between the superstructures is 7 metres or less, the width of the slope paved with concrete shall extend from the outside edge of one superstructure to the outside edge of the adjacent superstructure and be continuous throughout its entirety as shown in the contract drawings. If the clear gap between

structures is greater than 7 metres, the two structures shall be treated as separate single structures.

The area paved with concrete shall be skewed to match the skew of the superstructure.

920.04 PREPARATION PRIOR TO CONCRETE PLACEMENT

The slope adjacent to the slope paving shall be graded to promote drainage away from the structure and to blend into the surrounding topography. Included in preparation is the excavation, removal and disposal of unsuitable, waste, or excess materials.

The Contractor shall supply, transport to site, handle, place, spread, and compact, Compacted Ordinary Fill to the dimensions, elevations and slopes as indicated on the contract drawings. Compacted Ordinary Fill shall be compacted to at least 90% of the Standard Proctor Dry Density (ASTM D698).

Selected granular base course, GRANULAR "A", shall be placed in a 150mm thick, uniform layer, spread, compacted and trimmed to the Owner's Representative's satisfaction. GRANULAR "A" shall be compacted to at least 90% of Standard Proctor Dry Density (ASTM D698).

The placing of wood strips shall be as outlined in the contract drawings.

Reinforcing steel shall be placed at mid-depth of the slope paving and shall be securely held in position. Rebar to be offset from Vee grooves and wood strips by ± 50 mm to increase cover where possible. Adequate rebar support chairs or concrete blocks shall be utilized to prevent displacement of the reinforcing steel mat.

The Contractor shall place 10mm Styrofoam, or an approved equal, between slope paving concrete and adjacent concrete surfaces.

920.05 CONCRETE PLACEMENT AND EROSION CONTROL BLANKET

The supply, placing, consolidation, finishing and curing for concrete shall be as outlined in Section 904.

Erosion control blankets shall meet the requirements of Section 636 and shall be placed at the sides of the slope paving and extend from the bottom of the concrete slope paving to the end of the wing wall as shown in the contract drawings.

920.06 MEASUREMENT FOR PAYMENT

Measurement for payment purposes shall be in square metres rounded to the nearest 0.1 square metres.

Measurement for payment shall be the area paved with concrete as measured on site.

Measurement for payment purposes outside the area actually paved with concrete will not be made but shall be considered incidental to the work.

920.07 BASIS OF PAYMENT

Payment at the contract price for "Slope Paving" in the Unit Price Table shall be full compensation for all materials, labour, plant, equipment, and services to complete the work as described above or so indicated on the contract drawings.

The items which are considered incidental to the works include all work taken to prepare the surface under the concrete slope including, but not limited to: supply and installation of granular material, wood, concrete reinforcement, concrete, and Styrofoam. Also included in this payment are the adjacent 2 metre wide erosion control blankets.

Compacted ordinary fill underneath the area where slope paving is to be placed, will be paid as compacted fill as per appropriate item in the contract documents.