

SECTION 524 CONCRETE DITCH AND SLOPE PAVEMENT

524-1 Description.

Construct concrete pavement in the flow channel of drainage ditches and on slopes in accordance with the notes and details shown in the plans.

524-2 Materials.

Concrete, Class 1	Section 347
Preformed Expansion Joint Material and Hot Poured Sealer	Section 932
Filter Fabric	Section 985

524-3 Forms.

Provide forms as specified in 520-3.

524-4 Foundation.

Shape and compact the foundation materials, upon which the pavement is to be constructed, to a firm, even surface, true to grade and cross-section.

Dispose of surplus material.

524-5 Joints and Weep Holes.

524-5.1 Joints: Form open or tooled (dummy) type joints as shown in the plans. Form open joints by staking a metal bulkhead in place and placing the concrete on both sides of it. When the concrete has set sufficiently to preserve the width and shape of the joints, remove the bulkhead. Upon finishing the pavement over the joint, open and edge the slot with a tool having a 1/4 inch [6 mm] radius.

524-5.2 Method of Placing Slope Pavement: Place slope pavement in vertical strips, 4 feet $\pm$ 1 inch [1,200 $\pm$ 25 mm] wide, except taper radii strips from the 4 foot [1,200 mm] width at the bottom to a minimum width of 1 foot [300 mm] at the top. Score the strips horizontally at intervals of 2 feet $\pm$ 1 inch [600 $\pm$ 25 mm], with a tool having a double 1/4 inch [6 mm] radius. Edge construction joints between strips with a tool having a 1/4 inch [6 mm] radius. The Engineer will allow construction joints at horizontal scorings.

524-5.3 Weep Holes: Locate and construct weep holes as shown in the plans. Construct weep holes at the toe of slope for all slope pavements.

524-5.4 Filter Fabric: Locate and construct filter fabric as shown in the plans and Design Standards.

524-6 Placing Concrete.

Place the concrete in the forms, tamp and spade it to prevent honeycombing, and until the top of the structure can be floated smooth and the edges rounded.

524-7 Finishing.

Roughen the surface of ditch pavement after screeding concrete, unless otherwise specified, to the approximate shape and grade by a rake or other suitable tool drawn perpendicular to the direction of flow. Ensure that the furrows are at least 1/4 inch [6 mm] deep.

Strike off slope pavement or smooth surfaced ditch pavement, when specified, true to line and cross-section, and remove all surplus water and laitance from the surface. Lightly broom the finish.

524-8 Curing.

Cure the concrete as specified in 520-8.

524-9 Method of Measurement.

The quantities to be paid for Concrete Ditch Pavement and Concrete Slope Pavement will be the plan quantity, in square yards [square meters], completed and accepted. Where the plans show headers or cut-off walls at the end or edge of the pavement, the volume of the additional thickness of pavement that constitutes the headers, calculated in accordance with plan dimensions, will be converted into equivalent square yards [square meters] of standard thickness pavement and included in the quantity to be paid for.

No deduction will be made for any areas occupied by manholes, inlets, or other drainage structures or by public utility appurtenances within the pavement area.

524-10 Basis of Payment.

Prices and payments will be full compensation for all work specified in this Section, including all materials and incidentals necessary to complete the work.

Payment will be made under:

Item No. 524- 1-	Concrete Ditch Pavement - per square yard.
Item No. 2524- 1-	Concrete Ditch Pavement - per square meter.
Item No. 524- 2-	Concrete Slope Pavement - per square yard.
Item No. 2524- 2-	Concrete Slope Pavement - per square meter.