

**SECTION 208**  
**EXCAVATION OF DITCHES**

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**208.01 DESCRIPTION**

This work shall include labour and materials required to carry out all excavation such as that required to complete roadside ditches and shall include hauling up to 1 km, handling and incorporation of all suitable materials into fill construction in accordance with Section 204 "Grading of Fill". The Contractor shall excavate the ditches to the grade required by the Engineer.

The width and side slopes of all roadside ditches shall be made true to the required cross sections and trimmed to the satisfaction of the Engineer.

To reduce siltation resulting from roadside drainage, the Contractor shall, if possible, terminate roadside ditches a minimum of 30 metres from any watercourse or water body or at a point designated by the Engineer. This will allow roadside drainage water to filter through a vegetated area prior to entering a watercourse or water body.

Where the quantity of excavation exceeds that required to construct the fills as directed by the Engineer, the surplus shall be used to widen the fills or otherwise disposed of as directed by the Engineer.

**208.02 GENERAL REQUIREMENTS FOR ROCK CUTS**

Over break shall be defined as that portion of rock which is excavated, displaced or loosened outside and beyond the back slopes of the ditches as established by the Engineer, with the exception of such material which occurs as slides, regardless of whether any such overbreak is due to blasting, to the inherent character of any formation encountered, or to any other cause.

All overbreak as so defined shall be removed by the Contractor at his own expense, at the direction of the Engineer. Provided, however, that if the Engineer approves, such overbreak may be used to replace material which would otherwise have to be borrowed. In which case payment to the Contractor for such overbreak used will be the contract price bid per cubic metre for material which would otherwise have to be borrowed.

Excepting that if in the opinion of the Engineer, the Contractor has exercised due care in the performance of his work and due to circumstances beyond his control overbreak has occurred, overbreak within 500 mm of the lines of theoretical back slopes and within 300mm of the theoretical ditch bottom will be paid for as solid rock excavation.

The use of large blasts is prohibited unless on written authority of the Engineer. The Contractor will be responsible for all damages to utility lines or to adjoining property caused by blasting or from any cause whatsoever resulting from any of his operations in connection with his work.

When the Department requires that a pole line be moved in order to safeguard it against damage from blasting operations, the Contractor will be required to pay fifty percent of the labour cost. An estimate of

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costs will be obtained by the Department before any relocation or moving is done. This clause in no way relieves the Contractor from responsibility for damage.

### **208.03 CLASSIFICATION**

Excavated materials will be classified in accordance with Section 205, Classification of Excavated Materials.

### **208.04 MEASUREMENT FOR PAYMENT**

Volumes of all classes of excavation described in Section 208.03 Classification will be measured in excavation and computed in cubic metres rounded to the nearest whole number. Measurements shall be of the actual amount of material moved only, except as otherwise provided in this specification.

The quantity to be measured shall be the number of cubic metres of excavated material as shown on the cross section sheets between the elevation of the edge of the subgrade shoulder and the theoretical neat lines of the ditches as shown in Section 1205 of the Specifications Book.

These quantities shall be calculated from cross sections taken after grubbing operations have been completed.

If the ditches are widened to provide a source of material for fills, then the materials excavated from areas outside of the ditches as shown on typical cross sections in the Specifications Book will be paid for under Section 207 Borrow.

For boulders present in other material, the three maximum rectilinear dimensions of boulders, actually moved will be measured and the volume of each so determined. Volumes of the boulders which are equal to, or greater than, zero decimal five cubic metres in volume will be included for payment as solid rock.

Large rock fragments which are too large to be incorporated into the fill shall be measured and their volumes subtracted from the cross section volumes. Calculations for volume of large rock fragments shall be the product of the three maximum rectilinear dimensions of the fragments.

### **208.05 BASIS OF PAYMENT**

Payment shall be at the contract unit price per cubic metre of either "Ditching Solid Rock", or "Ditching Other Material", as the case may be, hauled 1 km or under, except as otherwise provided in Section 208.02, General Requirements for Rock Cuts.

However, should the contract not include quantities for "Ditching Solid Rock", then all required excavation of "Ditching Solid Rock" will be paid for at the contract price for "Solid Rock".

Should the contract not include quantities for ditching other material, then all required excavation of "Ditching Other Material" will be paid for at the contract price for "Other Material".

However, should the Engineer require that unsuitable material or bog be excavated, then such excavation of unsuitable material or bog shall be paid for at the contract price for excavation hauled 1 km or under "Ditching Other Material".

Payment at the contract price for Ditching Other Material or Ditching Solid Rock, shall be compensation in full for all labour, materials, and equipment use required for all work herein described together with the excavating, handling, hauling up to 1 km and placing and compacting in a fill as described in Section 204 "Grading of Fill", or placing and shaping up in a disposal area as required.

Where the Engineer requires that excavated material be hauled in excess of 1 km, additional payment for overhaul will be made in accordance with Section 215 "Overhaul on Excavated Materials".