

Network Outcomes Contract Clarification Governance Group Clarification

Reference Number:	NOCC No. 37
Subject Title:	Drainage Maintenance – Basis of Payment for High Lip and Surface Water Channel (SWC) activities
Issue Date:	23 rd July 2020
Clarification Purpose	Clarification is provided to ensure the NOC is being interpreted consistently. The clarification does not remove or supersede the Network Outcomes Contract documentation.

SUBJECT

It has come to the Agency’s attention that there has been some confusion as to the Basis of Payment for claiming High Lip and Surface Water Channel cleaning activities.

BACKGROUND

Drainage maintenance activities include removing the Hip Lip, reforming the Surface Water channel area (removing the vegetative material) and or cleaning a Side Drain where this exists.

Each maintenance activity should be planned and programmed as may be required for each location.

In some network areas only a High Lip problem may present and require treatment, in other areas both the High Lip and Surface Water Channel may need maintained and in other locations all three drainage facets including a Side Drain may be present and require maintenance.

In other locations no Surface Water Channel or swale may exist however there may be a Side Drain.

Because of varying network carriageway drainage configurations, the drainage deficiency need will determine how maintenance is most effeciently completed.

It is expected that based on drainage deficiency and any pavement/surfacing failures, each maintenance activity will be planned and programmed as may be required for each location.

There are several different methodologies that a Contractor may employ to carry out these drainage maintenance activities.

The NOC contract outlines these requirements:

Maintenance Specification section 6.2.2 Drainage Renewals

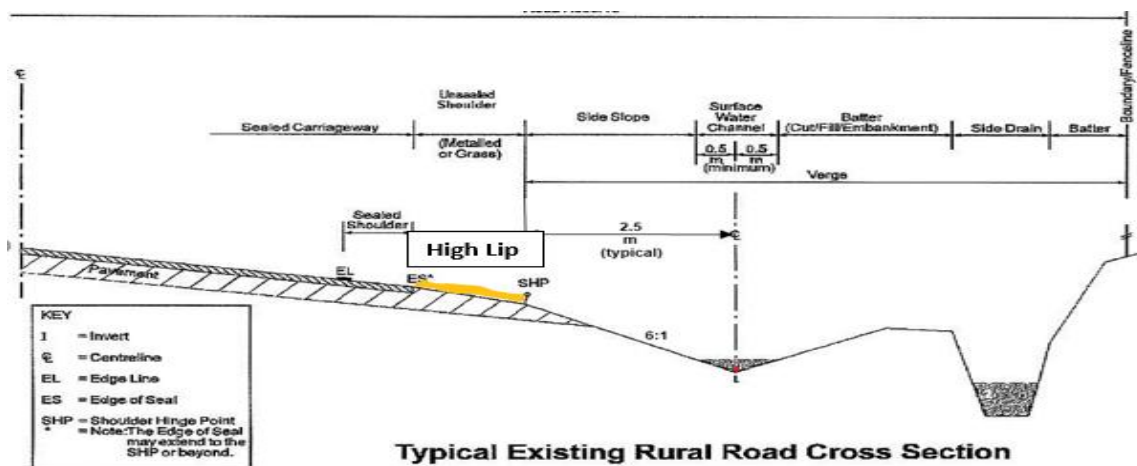
High Lip Removal

Build-up of material on the unsealed shoulder or side slope occurs naturally over time, causing a high lip immediately adjacent to the sealed carriageway. This high lip prevents water drainage from the carriageway surface.

High Lip Removal is removal of the build-up of material adjacent to the edge of the sealed carriageway, allowing water to positively drain from the carriageway surface. The Contractor shall complete high lip removal equal to or exceeding the lengths specified in Table 6.2. (BPRQs)

Appendices Section 1.6

The Appendices provides this typical cross section for drainage renewals activities – this amber highlight indicates the typical High Lip area.



Maintenance Specification section 6.2.2 Drainage Renewals

Reform Unlined Surface Water Channels

Build-up of material on side slopes occurs naturally over time, resulting in a side slope of less than 6:1 (H:V). Refer to diagram in Appendix 1.6, Typical Cross-section for Drainage Renewals.

Reforming of unlined surface water channels (SWCs), including reshaping of unsealed shoulders (where they exist), side slopes and longitudinal regrading of the SWC invert, shall be carried out where water does not positively drain away from the sealed carriageway or out of the pavement layers.

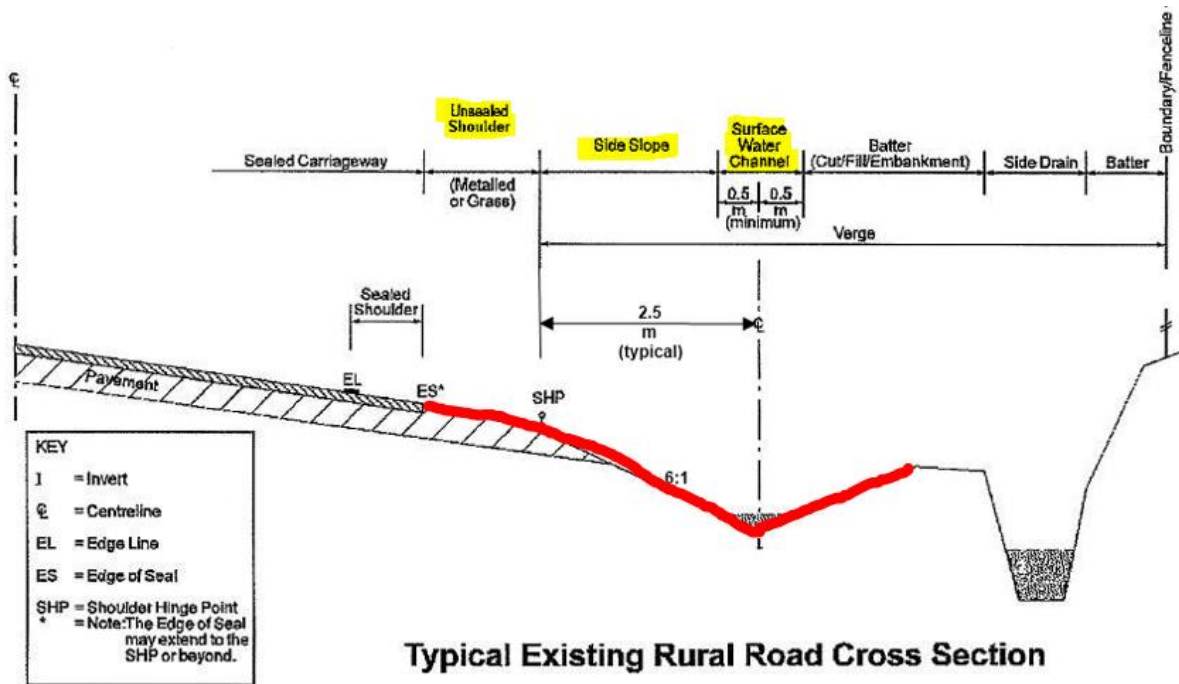
Reforming of unlined SWCs shall include High Lip Removal where this can be completed as part of the same operation. The Contractor shall complete reforming of SWCs equal to or exceeding the lengths specified in Table 6.2. (BPRQs)

The underlined areas above form part of the explanation for this Clarification.

Appendices Section 1.6

The Appendices provides this typical cross section for drainage renewals activities – see over.

The red highlight indicates where removal of Hip Lip, the side slope and reforming Surface Water Channel area are completed together as one operation.



RESPONSE

NZTA's expectations are:

At sites where reforming of unlined Surface Water Channels are programmed, the expectation is that any High Lip present at the same locations is also to be addressed as a matter of course.

It is the contractor's choice regarding the methodology they use for carrying out this work in the most efficient manner and they may choose to do it in one, two or more separate operations if they wish. But this choice of methodology alone does **not** warrant the payment of both rates for SWC and High Lip.

The default position is that this combined work shall be paid for at the scheduled rate for reforming the Surface Water Channel.

Typically, no additional payment will be made for the removal of High lip at these sites UNLESS it can be clearly demonstrated that there are sound technical and / or operational reasons for carrying out the works as separate independent operations.

(An example might be where there is a flat wide unsealed shoulder completely separating the SWC from a build-up of high lip on the edge of the seal. In this case each activity may warrant the use a different crew using different plant and equipment at different productivity rates)

In any such cases, this must be agreed in advance with the Agency and must be separately programmed and scheduled as two independent activities, in which case **both** applicable scheduled rates will be paid.

The NOC 3 (latest version of the Contract Documents) has been revised to more clearly outline the Basis of Payment requirements for these works.