

This specification covers the requirements for cold planing existing pavement. The cold planing shall expose sufficient curb and gutter to allow full curb height restoration after eventual resurfacing, and shall extend to a width sufficient to restore an acceptable cross section.

PART 1 REFERENCES

1.1 NOT APPLICABLE

PART 2 GENERAL

2.1 NOT APPLICABLE

PART 3 PRODUCTS

3.1 NOT APPLICABLE

PART 4 EXECUTION

4.1 SCOPE

.1 This specification covers the requirements for cold-milling existing pavement. The cold planing shall expose sufficient curb and gutter to allow full curb height restoration after eventual resurfacing, and shall extend to a width sufficient to restore an acceptable cross section. Cold planning of asphalt to tie-in new asphalt will be to the depth of the specified layer.

4.2 EQUIPMENT

.1 The cold planing shall be accomplished using a cold-milling machine. The cold-milling machine shall be a self-driven rotating drum type, capable of removing asphalt 100 mm thick and at least 1200 mm wide in a single pass. Cutting depth shall be adjustable from 0 mm to 100 mm over the length of the drum. The machine shall have automatic grade control and be able to load milled material directly into trucks, or be able to windrow the material for subsequent pick-up by other equipment.

4.3 OPERATIONS

.1 The existing pavement shall be removed to the depth specified in the Contract Documents. Should the pavement not be removed to the required depth in the first pass, then the Contractor shall return again to mill down the pavement to the required depth.

- .2 Removal may be required across the full width of the road, one lane width, one lane and shoulder width or in tapered strips along the curb, depending upon the suitability of the resulting cross section. In areas where the cold milling equipment cannot remove the pavement to the depths required, such pavement shall be removed to the required grade using other means acceptable to the Owner.
- .3 Prior to paving operations commencing, a transverse butt joint must be constructed. If a transverse vertical cut is milled in the existing pavement at the limit of the Work Area, the contractor shall immediately construct with hot mix asphalt concrete a temporary smooth 1.5 meter long taper. The temporary taper must be removed prior to paving of the milled area.
- .4 Lanes shall be completed to the same location at the end of the day's cold milling operation where it is intended to have both lanes milled.
- .5 All residue left by the cold planing process shall be removed immediately from the road. Mechanical sweeping shall be performed at the end of each day's operations. Low points in the asphalt as a result of cold planing operations at the end of each day's operation, where water ponding may occur, shall have the shoulder milled for draining rainfall. Any guide rail contaminated as a result of cold planing or sweeping operations shall be cleaned to the satisfaction of the Owner. Any milled material that is lost over the shoulder shall be immediately retrieved and disposed of in an approved manner.
- .6 The Contractor shall dispose of residue at an approved waste disposal area provided by the Contractor at their own expense.
- .7 The Contractor shall continuously maintain the Work Site free of potholes and standing water and in a condition providing for a safe and efficient flow of traffic, from the time of removal, until such time as the new asphalt concrete is placed. Hot mix asphalt concrete shall be placed in the potholes; cold mix or RAP are acceptable only as a temporary repair. Areas cold milled must be paved within 7 calendar days of the cold milling operation. Signage indicating the driving condition of the milled surface shall be posted. Milled and aged asphalt concrete surfaces shall be treated with bituminous tack coat prior to the placing of asphalt concrete.

#### 4.4

#### USE OF MILLED MATERIAL FOR SHOULDERING

- .1 For projects where milled material is identified for use as shouldering material, the following conditions apply:
  - .1 The milled material is to be placed on the shoulder using an approved shouldering machine. Direct placement from the

conveyor of the milling machine onto the shoulder will not be permitted.

- .2 The material must be compacted immediately after placing.
- .3 Milled material shall not be placed on the shoulders within 15 meters of a body of water.
- .4 Excess milled material that cannot be used for shoulders will become the property of the Contractor.

#### 4.5 USE OF MILLED MATERIAL FOR STOCKPILING FOR OWNER

- .1 For projects where milled material is identified for use by the Owner, the material shall be loaded and hauled to a stockpile site as indicated in the contract document or as directed by the Owner.
- .2 If the Contractor removes the specified thickness in more than one layer, then material from each layer must be stockpiled separately, unless otherwise indicated in the contract documents.
- .3 Proper stockpiling procedures must be used, and care shall be taken not to contaminate or consolidate the reclaimed asphalt concrete stockpile.
- .4 If a potential for contamination of the RAP exists due to ground conditions at the stockpile site, a layer of clean, fine grained material shall be evenly distributed as a base for the stockpiles. The cost of preparing and providing the layer of clean, fine grained material as a base for the stockpiles shall be included in the unit price bid for cold planing asphalt.
- .5 The height of the RAP stockpiles shall be a maximum of 3 metres to limit the consolidation of the stockpile material and no loaders, crawl tractors, trucks or other equipment shall be permitted to travel on the stockpile.

### PART 5 PAYMENT

#### 5.1 MEASUREMENT FOR PAYMENT

- .1 Measurement for payment shall be on the basis of the required surface area subject to cold planing to the required depth as specified by the Owner. The area shall be computed in square metres to the nearest whole number.

#### 5.2 BASIS OF PAYMENT

- .1 Payment at the contract unit price shall be compensation in full for all labour, materials and use of equipment to; carry out the cold planing to the required depth, load and haul away and dispose of the residue at a waste disposal site provided by the Contractor at their own expense, or a site designated by the Owner, and sweep the planed surface. All work

associated with loading, transporting, placing, grading and compacting milling materials along shoulders shall be considered incidental to this item.

Not For Construction