



3400 - SPECIFICATION FOR BINDER, FILLERS AND BLENDER SAND

3400 - 1 DESCRIPTION

- 1.01 The work shall consist of removing overburden, excavating, loading and hauling binder, filler and blender sand; dumping and stockpiling or spreading the material at a mixing site, and adding the material at the screener, crusher, central mixing plant or on the road.

3400 - 2 MATERIALS

- 2.01 Sources of the material will be made available to the Contractor by the Department. The stockpiled material shall consist of fine graded mixtures of sand, silt, and clay and shall be free from organic or other deleterious material.
- 2.02 The approximate sieve analysis and maximum plasticity index requirements for the material shall be as follows:

Nominal Sieve Opening	Percent by Weight Passing Canadian Metric Sieve Series		
	Binder	Filler	Blender Sand
5.0 mm	100	100	100
400 µm	100	90	25
71 µm	50	25	10
Plasticity Index	10	0	0

- 2.03 The specified requirements for each material will be determined by the Engineer and will be controlled by the average sieve analysis and plasticity index of the crushed or screened aggregate to which the material is to be added.

3400 - 3 CONSTRUCTION

- 3.01 To facilitate locating, testing, and acquiring the materials, the Contractor shall provide the Engineer with advance notice of mixing site locations.
- 3.02 Overburden shall be removed from material deposits in accordance with the requirements for Removal of Overburden (Specification 2260). Removal of overburden will be paid for on an Extra Work basis.
- 3.03 If necessary, to remove clay lumps or oversize material, binder, filler and blender sand shall be screened over a screen the same size as the top size of the material being produced.
- 3.04 If necessary, a shredder or pulverizer shall be used to break down any clay lumps remaining in the binder, filler or blender sand after it is screened.
- 3.05 Binder, filler and blender sand shall be hauled in accordance with the requirements for Haul on the Basis of the Kilometre (Specification 2405).

- 3.06 Stockpiles of binder, filler, and blender sand shall be constructed in accordance with the requirements for Stockpiling Aggregates (Specification 3600), and shall be shaped to ensure maximum run-off of precipitation.
- 3.07 The quality and gradation of the binder, filler, and blender sand to be stockpiled and added will be determined by the Engineer in accordance with the requirements of the mix or aggregate being produced.

3400 - 4 MEASUREMENT

- 4.01 Binder, filler, and blender sand will be measured in tonnes.
- 4.02 The haul distance for binder, filler, or blender sand will be measured from the source to the mixing site. The limit of freehaul will be as specified on the tender form.
- 4.03 If excess material has been stockpiled at the mixing site, the quantity of tonnes and tonne kilometres, measured for payment will be reduced accordingly.

3400 - 5 PAYMENT

- 5.01 Payment for BINDER, FILLER, AND BLENDER SAND will be at the contract unit price per tonne. The unit price will be full compensation for excavating, loading, freehaul, dumping and stockpiling or spreading the binder, filler, and blender sand, and adding the binder, filler, and/or blender sand at the central mixing plant, screener, crusher or on the road.
- 5.02 Payment for HAULING BINDER, FILLER, AND BLENDER SAND will be at the contract unit price per tonne kilometre in accordance with the requirements for Haul on the Basis of the Kilometre (Specification 2405), except that no direct payment will be made for hauling binder, filler or blender sand if it is added to the sub-base course on the road or for the hauling the free haul distance if specified on the tender form.
- 5.03 Payment for the removal of overburden will be on an Extra Work basis.
- 5.04 Payment for the screening, shredding or pulverizing of Binder, Filler, and Blender Sand, if required, will be on an Extra Work basis except that the unit price for binder, filler, and blender sand will be full compensation for screening the filler or blender sand when the Contractor elects to use a drum mixer or a continuous mix plant without screens to produce bituminous mix.