

ASPHALT PAVEMENT

1 General

1.1 RELATED WORK

.1 Coordinate the requirements of this section with all other sections, including but not limited to:

.1 Section 01410 Testing Laboratory Services

.2 Section 02210 Rough Grading

.3 Section 02233 Granular Base

1.2 QUALITY CONTROL

.1 **City of Saskatoon, Parks Branch** to approve asphalt construction.

.1 Submit for asphalt before delivery to site:

.1 Name of supplier.

.2 Mix design of asphalt.

.3 Other information requested to verify product quality.

.2 Notify **City of Saskatoon, Parks Branch** when Contractor schedules delivery of asphalt and intends to undertake Work required.

.1 Schedule delivery and placement of asphalt when outside temperature is above 4 degrees C and rising.

1.3 INSPECTION

.1 Notify **Consultant** for inspection of:

.1 Surface layout before placement of asphalt (spray painted).

.2 Granular base preparation.

.2 Asphalt placement and finishing work.

1.4 TESTING

.1 Asphalt surfacing is subject to analysis by an approved testing laboratory service and includes Marshall density and core samples to check design thickness tolerances.

.1 Test results that do not meet specification will be averaged with two additional core tests within two metres of the original core.

.2 Contractor is responsible for cost of these additional cores.

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2 Products

2.1 ASPHALT

.1 Asphalt to consist of mineral aggregates and asphalt cement properly processed, compacted, and finished in accordance with these specifications and to conform to the thickness, grade, and cross-section specified.

.1 Asphalt type 2, per City of Saskatoon, IS-ME standards.

2.2 SLURRY SEAL

.1 SS-I emulsion and sand mixture with sand passing #16 sieve.

3 Execution

3.1 LAYOUT

.1 Establish and maintain line and grade controls using appropriate survey personnel and equipment.

.1 Contractor is responsible for layout accuracy.

.2 Provide ample clearance on all sides for proper execution of the Work.

.2 Establish layout of asphalt work as required accurately per drawings.

.1 Contractor is required to spray paint edge of asphalt surfacing and obtain approval, before placement start.

3.2 SUB GRADE PREPARATION

.1 See Section 02210 - Rough Grading.

3.3 GRANULAR BASE

.1 See Specification Section 02233 – Granular Base.

3.4 ASPHALT DELIVERY AND INSTALLATION

.1 Transport asphalt to site using trucks with clean metal boxes.

.1 Cover materials to maintain temperature and eliminate contamination.

.2 Loss of temperature from plan to job to not exceed 10 degrees C.

.2 Place hot asphalt concrete after base course is compacted as specified and free from all foreign matter.

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- .1 Immediately after spreading and screening check surface and correct and irregularities before starting compaction.
- .2 Where hand-spreading is necessary, do simultaneously with machine-spreading or immediately afterwards to ensure a good bond and to receive maximum compaction.
- .3 Make all joints made during paving operations straight, clean, vertical, and free of broken or loose materials.
 - .1 Where joints occur between new courses and existing previously laid down courses, cut back the existing course sufficiently to provide a clean, vertical surface.
 - .2 Paint vertical faces of all joints with a thin, continuous coating of bonding glue, SS-1 or equivalent to provide a tight, waterproof bond.
- .4 Compact each paving course with approved rolling equipment to produce a smooth dense pavement surface and density equal to or greater than 97% of Marshall.
- .5 Roll with suitable equipment as soon as possible after placing the mixture once surface can bear roller without checking or undue displacement.
 - .1 Each pass of the roller to overlap previous passes to ensure a smooth surface free of roller marks.
 - .2 Keep roller wheels sufficiently moist to not pick up any material.
- .6 Carry out rolling in three (3) close sequenced operations.
 - .1 First "breakdown" rolling as close as possible to the paver, using steel wheel rollers. Operating roller at speeds exceeding 4.8 km per hour is not approved.
 - .2 Second rolling with pneumatic-tired compactors to follow the first rolling as soon as possible while the paving mix is still warm enough to result in the maximum specified density. Operating compactor at speeds exceeding 8 km per hour is not approved.
 - .3 Final rolling with tandem roller weighing not less than 8 tonnes, while paving mixture is still warm enough for added compaction and removal of all roller marks.
- .7 Correct defective areas immediately to assure continuous bond appearance.
- .8 Hand tamper with hot tampers in areas not accessible to the rolling equipment to achieve a density equal to machine rollers.

3.5 FINISHING

- .1 Finished pavement surface to meet profile and cross-section of 6.0 +/- mm and be free from depressions or bumps exceeding 3mm as measured with 3m straight edge.

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- .2 Repair of excessive depressions by overlay feathered to existing surface in not acceptable.
 - .1 Defective areas are required marked and saw-cut through full depth of asphalt.
 - .2 Remove material in defective areas, paint edges of saw-cut with thin continuous coating of bonding glue, SS-1 or equivalent, to provide a tight waterproof bond, with new asphalt placement.
- .3 Tamp edges directly adjacent to soft landscaping to provide clean finish.
- .4 Traffic on finished surface is not permitted until pavement has cooled to atmospheric temperature.
- .5 Saw cutting of asphalt edges is not acceptable.

3.6 OVERLAY

- .1 Preparation, transportation, placing, and finishing per requirements of this specification.
- .2 Clean and tack existing asphalt surface before applying overlay.
 - .1 Apply min. 25mm thickness of asphalt.

3.7 SLURRY SEAL

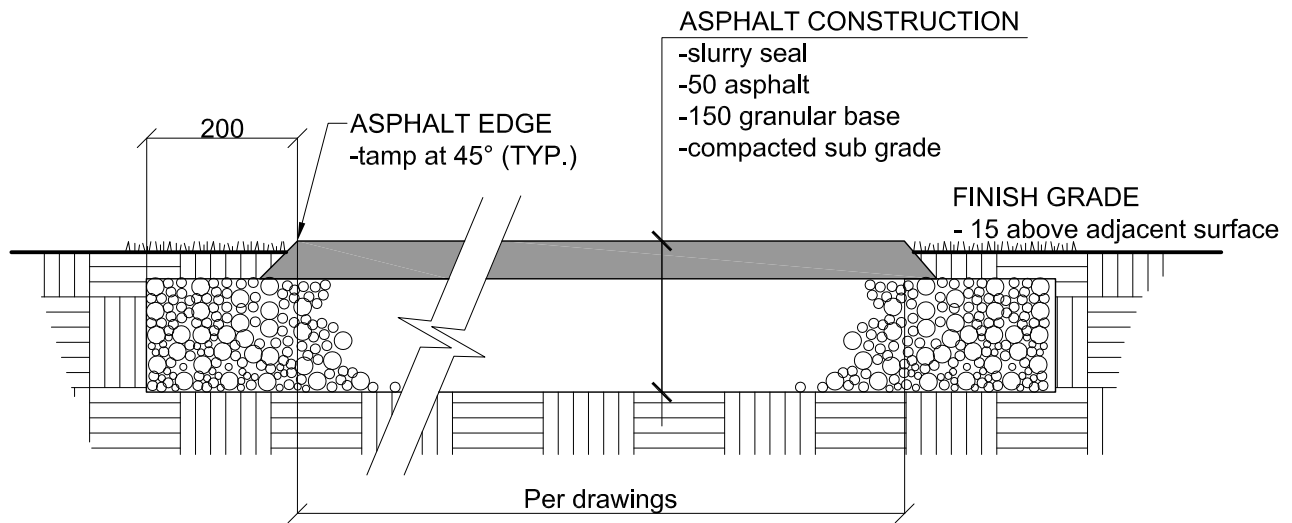
- .1 Distributor is required equipped with devices for accurately measuring material temperature and flow rates.
 - .1 Contractor is responsible for damage done to private property due to drifting of the oil by the wind.
- .2 Clean asphalt surface of foreign matter before applying slurry seal.
- .3 Apply even layer of emulsion slurry seal to asphalt surface.
- .4 Slurry seal material on top of adjacent curbs, walks, retaining walls and vegetation is not permitted.
- .5 Traffic on finished surface is not permitted until slurry has cured.

3.8 CLEAN-UP

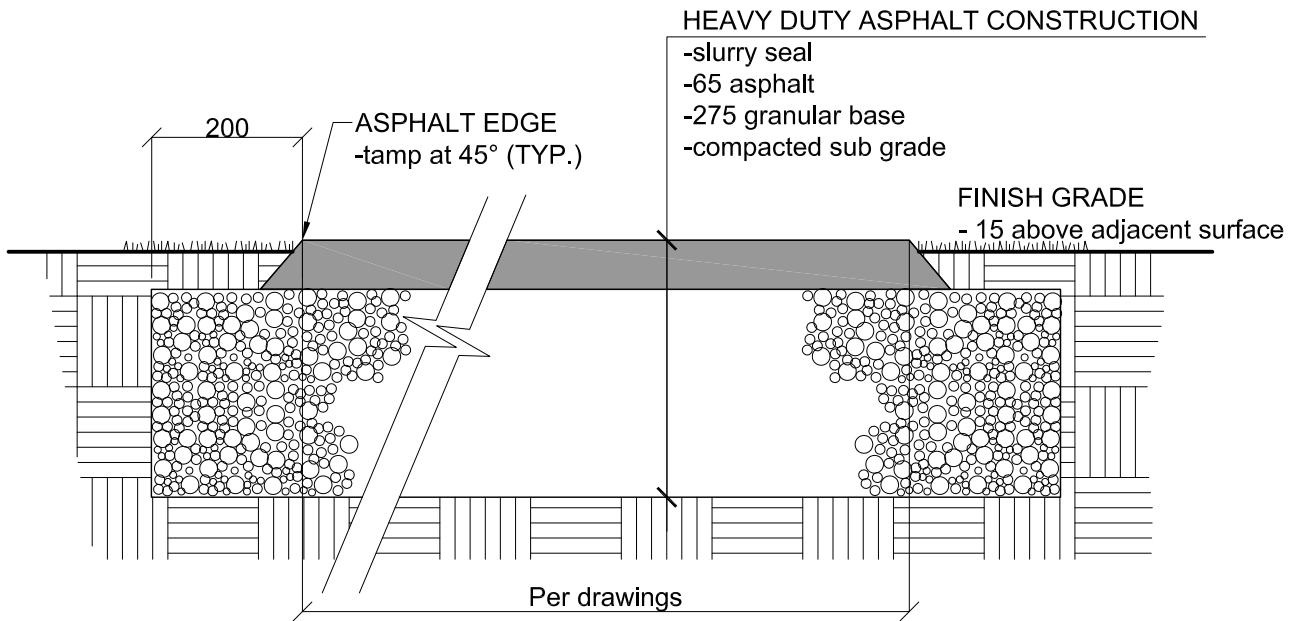
- .1 Clean adjacent walks and road surfaces at the end of each working day.

END OF SECTION

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ASPHALT CONSTRUCTION



HEAVY DUTY ASPHALT CONSTRUCTION

NOTE:

1. All units are in millimeters U.N.O.
2. Asphalt surface to have 2% crossfall in the direction of surface drainage flow (refer to grading plan).
3. Asphalt path to be 2400 wide with min.1500 radius at corners unless otherwise noted (refer to layout plan).

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