

C. Worksite Conditions

1. Do not begin installation of bituminous setting bed until provisions for curing of concrete have been completed.
2. Verify the areas to receive brick paving with the Engineer prior to performing any work, and protect all other surfaces from contamination of bituminous materials and/or damage as a result of this work.
3. The minimum ambient temperature for installation of bituminous setting bed and modified asphalt adhesive is 40°F.

D. Weather Limitations  
The Contractor shall:

1. Take extra precautions in drying the aggregate, controlling the temperature of the delivered material, and compacting the setting bed when the air temperature falls below 50°F.
2. Place no bituminous setting bed when surfaces are wet or when the temperature of the either the air or the concrete base surface is 40°F or lower.

E. Existing Surfaces  
The Contractor shall:

1. Clean existing dry concrete base of all surface debris, dirt, oil, and other foreign materials.
2. Contractor is responsible for any contamination of adjacent surfaces including curb, sidewalks, and buildings, etc. during the placement of setting bed, tack coat, or neoprene. The Contractor will be responsible for cleaning or replacing to the City of Sidney's satisfaction any contamination that may occur.

F. Placing Asphalt Setting Bed

1. Prior to placement of the asphalt setting bed, the existing concrete pavement being used as a base for the brick pavement shall be swept completely clean and shall be leveled to the proper uniform grade required by "planing" down concrete patches that protrude higher than 3/8 inch above the otherwise uniform surface, and by filling in depressions and holes in the concrete surface with a sand and cement grout consisting of 1 part Portland cement to 1-1/2 parts of sand. The asphalt setting bed shall not exceed 1" in depth. No additional payment will be allowed for this arrangement of the work.

2. After surface preparation of concrete base, a tack coat shall be applied (only in the areas of drive approaches) to the base at the rate of 0.05 gallons per square yard, in accordance with ODOT Item 407 Tack Coat. The tack coat shall be applied by hand, and building faces, curbs, and concrete surfaces shall be shielded for protection from splashing or contamination by airborne bituminous particles. The Contractor shall conduct his operations so that he will not deface the adjacent buildings during the application of the tack coat. The Contractor shall take precautions so that tack is not tracked onto adjacent pavement wearing surface.

3. To install the setting bed over the prepared base surface place 3/4" deep control bars directly over the base. If grade must be adjusted, set wood chocks under depth control bars to proper grade. Set 2 bars parallel to each other approximately 11' apart to serve as guides for striking board (12' long x 2" x 6" board). The depth control bars must be set carefully to bring the pavers, when laid, to proper grade.

4. Place some asphalt bed between the parallel depth control bars. Pull this bed with the striking board over these bars several times. After each passage, low porous spots must be showered with fresh bituminous material to produce a smooth, firm, and even setting bed. As soon as this initial panel is completed, advance the first bar to the next position, in readiness for striking the next panel. Carefully fill up any depressions that remain after removing the depth control bars and wood chocks.

5. The setting bed shall be rolled with a 1-ton power roller to a nominal depth of 3/4" while still hot unless the City approves alternative methods. The thickness shall be adjusted so that when the brick pavers are placed, the top surface of the pavers will be at the required finished grade.

6. Place only that quantity of asphalt setting bed that is required for brick paver placement on the same day. Apply the asphalt adhesive to the setting bed only as required for brick paver placement on the same day.

7. After the setting bed has cooled, a coating of 2% neoprene-modified asphalt adhesive shall be applied by mopping or squeegeeing or troweling over the top surface of the bituminous setting bed so as to provide a bond under the pavers. If it is troweled, the trowel shall be serrated with serrations not to exceed 1/16".

8. After the modified asphalt adhesive is applied, carefully place the pavers by hand in straight courses with hand-tight joints and uniform top surface. Good alignment must be kept, and the pattern shall be that shown on the plans.

9. Permit no pedestrian or vehicular traffic on the asphalt surface prior to brick placement.

G. Installation of Brick Pavers

1. Place the pavers by hand when the modified asphalt adhesive is dry to the touch. Place in straight courses, controlled by accurately placed striking lines, with hand-tight joints and uniform top surface. Keep good alignment and the pattern that is shown on the plans or approved shop drawings. Establish coursing perpendicular to street centerline.

2. Protect newly laid pavers at all times by panels of plywood on which the installer stands. Advance these panels of plywood as work progresses. Keep the plywood protection in areas which will be subjected to continued movement of materials and equipment.

H. Joint Treatment

1. Vary hand-tight joints from 0" to a maximum 3/16" with 1/8" being the average joint dimension. Fill joints with stabilized joint filler consisting of sand and SandLOCK mixture. See 4 through 7 below for installation.

2. Saw brick pavers to fit tightly around all obstacles within the paving area. Meet jointing tolerance of hand-tight joints. Fit pavers around circular objects with circular or arch form, not angular.

3. Saw brick pavers to fit within the pattern around obstacles and provide a surface area greater than one-third a full-size brick, unless approved by the City as the only alternative.