

**Annex A**  
**Mayerthorpe RCMP Detachment Sidewalk and Asphalt Improvements**

**A. Scope of Work:**

- Remove and replace curbs on west and east sides. (Refer to Appendix A Section A & B)
- Replace sidewalk on west side of building. (Refer to Appendix A Section C)
- Remove curbs and provide concrete ramps on NW & NE staff/public sidewalk. (Refer to Appendix A Section D & E)
- Asphalt replacement patch over garage bay aprons, ensuring adequate slope and level height. (Refer to Appendix A Section F)
- Asphalt replacement patch north parking areas, raise surface to ensure adequate drainage off property. (Refer to Appendix A Section G & H)
- Patch & repair asphalt potholes and other areas of deterioration throughout the parking area.
- Provide line painting for parking spaces, repaint the rest of the parking lot and provide/install required handicap painting/signage.

**B. Specifications:****1. General**

- 1.1 Refer to appendix A for additional information on work locations.
- 1.2 Approximate work section dimensions:

A.	22m (72')
B.	36.5m (118')
C.	39m <sup>2</sup> (420 sqf)
D.	4m <sup>2</sup> (43 sqf)
E.	7m <sup>2</sup> (75 sqf)
F.	45m <sup>2</sup> (484 sqf)
G.	72.5m <sup>2</sup> (780 sqf)
H.	173m <sup>2</sup> (1862 sqf)

**\*Sizes are approximations contractor is required to verify before ordering of applicable materials.**

**2. Parking area Asphalt & Apron**

- 2.1 Grind and remove/replace asphalt from North of Detachment as indicated on diagram per Appendix A.
- 2.2 Install new asphalt apron level to existing garage bay sill.
- 2.3 Achieve positive slope to allow for adequate drainage towards the west side of the property.
- 2.4 Ensure sufficient sub-surface compaction.

**3. Asphalt**

3.1 Pavement Mixture

3.1.1 Design and prepare, hot mixed, hot laid pavement mixtures utilizing asphalt cement and aggregate in accordance with ASTM D3515-96.

3.2 Examination

3.2.1 Examination – examine prepared base before paving report any defects to project manager prior to proceeding.

3.3 Protection of existing work

3.3.1 Protect structures, building, sidewalks, landscaping and other surface features against damage caused by paving operations and asphalt spray.

3.4 Primer application

3.4.1 Apply Primer at 0.9 – 1.5 litres per square meter.

3.4.2 Allow primer to be absorbed completely by base surface.

**4. Pavement mix and placement temperatures**

4.1 Mix and place asphalt concrete heated to temperatures between 121 – 163 degrees Celsius.

4.2 Place pavement at ambient air temperatures at or above 5 degrees Celsius.

**5. General Paving**

5.1 Uniformly grade pavement surfaces. Provide gradual transitions in slopes. Maximum surface depressions shall be 5mm below a 3.0m long straight edge.

5.2 Compact pavement to minimum 97% of Marshall Design Density.

5.3 Do not use pneumatic tire rollers with wobbly type wheels.

**6. Concrete**

6.1 Remove exiting curbs, and replace ensuring level to new and existing sidewalk height.

6.2 Ensure surface is level, replacement is called for on the west side. Mud jacking of the east side is recommended if un-level portions of the sidewalk are present.

6.3 Ramps are to be of generic type to provide ease of access, which would meet disability accessibility standards.

**7. Sidewalk**

- 7.1 All sidewalk concrete areas must contain welded steel fabric to CSA G305 M1983 (R1991).
- 7.2 Concrete must be of type 10 grade, sulphur resistant, with an MPA of 25 or higher; with 4-6% air content. The slump test must not exceed 100mm or (4"). When setting concrete a curing compound and sealant must be used.
- 7.3 Concrete slab should be of a monolithic design, with the finished level of 50mm (2") minimum (above finished grade). Concrete depth must be 100mm (4") for sidewalk and 150mm.
- 7.4 If landscape can accommodate a slope, set forms so that the concrete slab surface slopes away from the building, a minimum of 2% (20mm per M, or 1/4" per ft.) to provide adequate drainage.
- 7.5 Set concrete control joints at a maximum of every 5 feet and intersection points.
- 7.6 Ensure sufficient sub-surface compaction.

**8. Line Painting**

- 8.1 Standard parking line and handicap symbol colours and applicable paint type to be utilized.
- 8.2 Maintain existing number of stalls and sizes.