Part 1 GENERAL

1.1 GENERAL REQUIREMENTS

1. Division One, General Requirements, is a part of this section and shall apply as if repeated here.

1.2 SITE CONDITIONS

1. Surfaces to receive waterproofing and surrounding air shall be at least 40 deg. F. (5 deg. C for a minimum period of 48 hours during waterproofing operations. When temperatures are lower use alternate material as specified.

1.3 GUARANTEE

1. The work under this Section shall be guaranteed in accordance with General Conditions of the CCDC Document 2 (2008) but for a period of two years from the date of Architect's Certificate of Substantial Completion.

1.4 DESCRIPTION OF WORK

1. Supply and install dampproofing on concrete foundation walls where dampproofing is indicated on drawings. Install on all walls where floors are recessed below grade.

1.5 RELATED WORK SPECIFIED ELSEWHERE

2. Cast-In-Place Concrete - Section 03 30 00
3. Mechanical – Section 20 - 23
4. Electrical – Section 26 - 28
5. Unit Masonry - Section 04 04 25

1.6 DELIVERY AND STORAGE

1. Deliver materials to the site undamaged in original sealed containers and packaged with labels and seals intact.

2. Store solvent based liquids away from excessive heat and open flame. Post "NO SMOKING / NO VAPING" signs in storage area.

3. Store all materials in a dry, warm, protected area.

1.7 QUALIFICATIONS

1. Dampproofing to be applied by mechanics with a minimum 5 years experience in installation of work of this Section in accordance with manufacturer’s instructions.

Part 2 PRODUCTS

2.1 MATERIALS

1. Primer: Henry/Bakor Primer 910-01 conforming to CGSB.37-GP-9M.

2. Dampproof Coating: Henry/Bakor 710-11 by Henry/Bakor Ltd., or approved equal mineral colloid emulsifier coating, brush applied, conforming to CGSB-37-GP-16M.

3. Caulking: Henry/Bakor 570-05 by Henry/Bakor Ltd. rubber asphalt joint sealing compound, non-sag for vertical application conforming to C.G.S.B.-37-GP-29M.

Part 3 EXECUTION

3.1 PROTECTION

1. Provide and install tarpaulins and coverings for the protection of adjacent wall finishes and surfaces where materials are being hoisted or being used.

2. Provide suitable platforms, wheeling stages, and/or similar protection against damage to the dampproofing by moving material or equipment.

3. Backfill carefully not to disturb dampproofing installation.

3.2 WORKMANSHIP

1. This Contractor shall, at all times, maintain their workmanship at the highest quality in accordance with the best standard practices for this class of work. Only competent mechanics skilled in the various trades specified shall be used and all work shall be executed in accordance with the drawings, specifications and manufacturer's recommendations, to produce a waterproof system.

3.3 EXAMINATION

1. Before commencing work, examine all areas and report in writing to the Architect and General Contractor, any conditions which will adversely affect successful dampproofing. Do not begin work until these conditions have been corrected.

2. Excessive voids, honeycombing and poor joints shall be repaired to provide a surface satisfactory for application of dampproofing.

3. Commencement of work shall imply acceptance of prepared surfaces.

3.4 PREPARATION

1. All concrete surfaces will have been cured for a minimum of 14 days prior to application and must be firm, free of loose particles, surface pits, and cracks. Clean all surfaces of laitance, frost, dirt, oil, grease, curing compounds and other foreign matter detrimental to adhesion of the dampproofing. Loose particles shall be removed with a scraper or wire brush. Grease or oil shall be removed with an approved cleaner.

2. Any penetrations of the membranes such as brackets, pipe sleeves, are to be cleaned, primed, and then brush coated with Henry/Bakor 710-07 material to the top of the wearing coarse, prior to coating the entire area.

3. Voids, cracks, holes, or other damaged surfaces shall be treated in accordance with

the manufacturer's directions, including priming, coating and dampproof.

4. Caulk vertical control joints, internal corners and around all steel structure, pipes, and conduits, etc. that penetrate the wall prior to dampproofing.

3.5 APPLICATION

1. Condition material at room temperature prior to application.

2. Install primer at a rate of 100 to 400 sq. ft/gal. (0.5 to 2 litre/sq. m.).

3. Asphalt dampproof coating shall be brushed on to cover foundation walls down over the footings to bearing level.

4. Material shall be applied in strict accordance with CGSB 37-GP-16M at a rate of 2 to 3 gal./100 sq. ft. (0.5 to 2.0 1/m^2).

5. Minor holes and voids in surfaces, chases, corners, recesses, projections shall be completely covered with dampproofing.

6. Where penetrations of steel structure, pipes, and conduits, etc. penetrate wall, carry fabric reinforcing and dampproof coating over a minimum of 6" (150 mm) of pipe and clamp (or other appropriate clamp) with pipe clamp over membrane on pipe, etc.

7. Allow the membrane system to cure thoroughly (until touch dry) before the commencement of back-fill, and in no case within less than 24 hours of completion.

8. Bring to General Contractor's attention that dampproofing must be protected by careful back-filling of selected back-fill material.

End of Section 07 11 00