Part 1 GENERAL

0.1 WORK OF RELATED SECTIONS

1. Carpentry and Millwork – under Section 06 41 00.

0.2 QUALITY ASSURANCE

1. Installer Qualifications: Specialized flooring firm with not less than 5 years successful experience in installation of wood flooring.

2. Source Quality Control: Obtain flooring from single manufacturer or source, to ensure match of quality, colour, grain and texture.

3. Mock-Up: Prior to installing wood flooring, construct a mock-up of the wood flooring where directed, not less than 4'x 4', with plywood underlayment and wood flooring with finish. Retain approved mock-up for judging completed flooring.

0.3 SUBMITTALS

1. Product Data: Submit manufacturer's technical data and installation instructions for wood flooring. Include instructions for handling, storage, installation, finishing, protection and maintenance.

2. Samples:

    1. Submit samples showing full range of each of the following in accordance with Section 01 33 00.

    2. Submit 24" samples of wood flooring. Allow for 6 different stained samples for Consultant's later selection.

    3. Maintenance Instructions: Provide maintenance instructions including warnings of any maintenance practice or materials which may damage or disfigure the wood flooring.

0.4 DELIVERY, STORAGE AND HANDLING

1. Deliver materials to the Site undamaged and with labels intact. Inspect containers to verify that they have not been opened.

2. Store materials as required by manufacturer.

0.5 PROJECT CONDITIONS

1. Maintain temperature and humidity recommended by the materials manufacturer before, during and after installation.

2. Ensure concrete is 28 days old before commencing installation.

3. Ensure concrete underlayment is visibly dry and contains less than 3% moisture.

1.6 WARRANTIES

1. Submit 3-year warranty, agreeing to repair or replace wood flooring which shrinks, warps, cracks, or otherwise deteriorates excessively, or which breaks its anchorage or bond with substrate or otherwise fails to perform as required, due to failures of materials or workmanship and not due to unusual exposure to moisture or other abusive conditions.

Part 2 PRODUCTS

0.1 MATERIALS

1. Wood strip flooring: Custom milled, thickness up to ¾" x up to 4" wide Solid White Oak or other hardwood species to match existing heritage wood strip flooring in long random lengths, select or better grade to CLA Grading Rules for Canadian Hardwood Strip Flooring (latest edition). Grade stamp each bundle of flooring. Colour to be selected by Consultant, stained, site finished in polyurethane Matte Finish, 4 coats. Nailed to ¾" plywood underlayment or existing subfloor.

2. Milling: Tongue and groove including ends.

3. Subfloor filler: Approved latex cement patching compound.

4. Accessories: Stair Treads and Risers, thresholds and transition strips to match species and finish of strip flooring.

5. Nails; purpose designed nails for power nailing wood strip flooring: 45 mm (1-3/4") power cleats for installation of hardwood.

6. Tactile Walking Surface Indicator (TWSI) Truncated Domes: 22mm x 22.5mm Advantage One by Kinesik Engineered Products (905-330-9233). Truncated domes conforming to latest OBC requirements. 316L marine grade stainless steel with concentric ring pattern. Spacing to be determined upon shop drawing review by architect prior to ordering.

7. Tactile Walking Surface Indicator (TWSI) Plate with Truncated Domes: 300mm x 300mm Advantage One Plate by Kinesik Engineered Products (905-330-9233). Truncated domes conforming to latest OBC requirements. 316L marine grade stainless steel with concentric ring pattern. Spacing and position to be determined upon shop drawing review by architect prior to ordering.

0.2 PATCHING AND LEVELLING MATERIAL

1. Manufacturer: Mapei Inc.

2. Material: equal to Mapei Plani/Patch fast setting cementitious patching compound.

Part 3 EXECUTION

0.1 EXAMINATION

1. Examine substrate surfaces to receive the Work of this Section and ensure that Work done as part of the Work of other Sections is complete and that there are no conditions which will adversely affect the performance of this Work. Notify the Contractor of any unsatisfactory conditions. Do not proceed with this Work until unsatisfactory conditions have been corrected. Commencement of Work implies acceptance of surfaces and conditions.

2. Verify that temperature and environmental conditions required by the wood flooring manufacturer is suitable for installation of materials.

3. Do not commence installation until Work of other Sections that may damage the wood flooring is complete.

0.2 PREPARATION

1. Ensure structural concrete floor surfaces are smooth, clean and cured, with trowel finish, free from curing compounds or surface coatings.

2. Where wood flooring adjoins thicker floor materials, apply patching compound, feathered out to make up difference in level between materials.

3. Where flooring is placed over existing, install M30 building paper.

0.3 INSTALLATION – MECHANICALLY FASTENED WOOD FLOORING

1. Plywood underlay:

    1. Off-set plywood joints so that no two lines are adjacent to one another and leaving 6 mm (1/4") gaps between sheets and 5/8" at walls.

    2. Machine nail flooring planks to plywood underlay with barbed cleats spaced at 225 to 250 mm (9 to 10") o.c. Offset end joints 305 mm (12"). Lay flooring at right angles to plywood sheets with minimum 12.7 mm (1/2") (or greater where recommended by manufacturer) expansions void at walls and permanent obstructions. Make side and end joints hairline in appearance. Allow 12.7 mm (1/2") wall expansion joints, concealed by base. Where no base occurs, exposed gap shall be uniformly cut to straight or curved lines, with gap sealant bead applied under separate Section.

    3. Notch flooring around penetrations leaving a constant joint within 1.5 mm (1/16") tolerance.

3.4 MAINTENANCE

1. Remove excess adhesive from the surface of the flooring as the Work progresses. Do not use solvents to clean excess adhesive from surface of wood flooring. Remove adhesive by rubbing surface with a cloth or very lightly with 000 grade steel wool after curing.

2. Thoroughly clean and buff wood flooring using manufacturer's recommended methods.

3. Protect newly laid flooring from construction traffic for a period of 24 hours to allow flooring to bond firmly.

3.5 CLEAN UP

1. Remove excess materials from the Site.

End of Section 09 64 29