Part 1 General

1.1 SECTION INCLUDES

1. Floor, wall, and roof framing.
2. Sheathing.
3. Miscellaneous rough carpentry, including:
    1. Wood blocking, cants and nailers.
    2. Wood furring.
    3. Wood sleepers.
4. Fasteners.

1.2 RELATED REQUIREMENTS

1. Section 03 30 00 - Cast-in-Place Concrete: Setting anchors in concrete.
2. Section 05 12 00 - Structural Steel Framing.

1.3 REFERENCE STANDARDS

1. Canadian plywood handbook
2. CSA O80 SERIES:21 Wood preservation
3. STD O121-17 Douglas fir plywood
4. STD O151-17 Canadian softwood plywood
5. CSA O325:21 Construction sheathing (adopted NIST PS 2-18, with Canadian deviations)
6. STD O437 SERIES-93 Standards on OSB and waferboard
7. Standard grading rules for Canadian lumber
8. CAN/CSA-O86 Engineering Design in Wood.
9. CAN/CSA-B111 Wire Nails, Spikes, and Staples.

1.4 ACTION SUBMITTALS

1. Section 01 33 00: Submission procedures.

1.5 INFORMATIONAL SUBMITTALS

1. Section 01 33 00: Submission procedures.

1.6 QUALITY ASSURANCE

1. Perform Work in accordance with the following agencies:
    1. Lumber Grading Agency: Certified by NLGA Grading Rules.
    2. Plywood Grading Agency: Certified by CANPLY.
    3. Wood Based Panel Products: Marked with a recognized, visible grade stamp showing Grade or span rating as required.

2. Pressure Preservative Treated Wood: Marked with certification mark authorized by the Canadian Wood Preservers Bureau (CWPB) indicating producer, preservative type, retention and Use Category (UC).

1.7 DELIVERY, STORAGE, AND HANDLING

1. Transport, handle, store, and protect products.
2. Store plywood panels flat and level.
3. Keep finish faces inward and cover stacks to protect from bumping and abrasion.
4. Protect tongue and groove plywood panel edges and corners.
5. Protect panels from sunlight, water or excessive humidity.
6. Store materials off the ground, covered with weatherproof tarps.

Part 2 Products

2.1 LUMBER MATERIALS

1. Dimension Lumber: CSA-O86, softwood lumber unless indicated otherwise, SPF No.1/2, maximum moisture content 19%; graded to NLGA Grading Rules Standard Grading Rules for Lumber. Finger jointed lumber not acceptable.

2.2 PANEL MATERIALS

1. Plywood: CSA-O151 as indicated in schedule below, certified and graded by CANPLY, meeting the requirements of CSA-O325. Minimum 1/2" (12.5mm) U.N.O.

2.3 FASTENERS AND ANCHORS

1. Conform to CSA Standard B111.
2. Screws and Nails: Galvanized steel for exterior or contact with pressure-treated materials.
3. Anchors: Galvanized steel

2.4 MISCELLANEOUS ACCESSORIES

1. Sill Gasket (top of foundation wall): 6 mm/ 1/4, as indicated thick, plate width Closed cell polyethylene foam.
2. Adhesives: Waterproof adhesive, approved for use with type of construction panel indicated by manufacturers of both adhesives and panels.
3. Building Wrap: Spun bonded polyolefin building wrap sheeting.
4. Polyethylene: Sheet polyethylene, 0.25 mm / 10 mil thick.
5. Roof Sheathing Clips: Purpose made H-shape clips, galvanized steel, minimum 0.91 mm metal thickness, size to suit panel material.

Part 3 Execution

3.1 EXAMINATION

1. Verify that site conditions are ready to receive work and opening dimensions are as indicate on the tender drawings.

3.2 FRAMING

1. Set members level and plumb, in correct position.
2. Make provisions for erection loads, and for sufficient temporary bracing to maintain structure safe, plumb, and in true alignment until completion of erection and installation of permanent bracing.
3. Place horizontal members, crown side up.
4. Construct load bearing framing and curb members full length without splices.
5. Double members at openings over 16" wide. Space short studs over and under opening to stud spacing.
6. Construct double joist headers at floor and ceiling openings and under wall stud partitions that are parallel to floor joists. Frame rigidly into joists.
7. Place sill gasket directly on cementitious foundation. Puncture gasket clean and fit tight to protruding foundation anchor bolts.
8. Coordinate installation of wood decking.
9. Curb roof openings except where prefabricated curbs are provided. Form corners by alternating lapping side members.
10. Coordinate curb installation with installation of parapet construction.

3.3 SHEATHING

1. Secure roof sheathing with longer edge perpendicular to framing members and with ends staggered and sheet ends over bearing.
2. Provide solid edge blocking between sheets.
3. Secure subfloor sheathing with longer edge perpendicular to floor framing and with end joints staggered and sheet ends over bearing. Attach with subfloor glue.
4. Install plywood to two-span continuous.

End of Section