

## PART 1 - GENERAL

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| <u>1.1 DESCRIPTION</u>             | .1 This section covers the construction of the electrical shed as detailed on the drawings and outlined in the specifications.   |
|                                    | .2 Contractor will coordinate work with other trades responsible for related work. Examine all drawings, details and specifications to coordinate work with the work of other trades. No claim for any extra will be entertained for delays occasioned by such activities.   |
| <u>1.2 MEASUREMENT FOR PAYMENT</u> | .1 <u>Electrical Shed:</u> The supply of materials and complete construction of the electrical shed, in the area noted on the drawings, will be measured by the unit. Include all labour, material and equipment costs in the unit price, including building materials and the concrete floor slab/concrete foundation wall. |

## PART 2 - PRODUCTS

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| <u>2.1 MATERIALS</u> | .1 Materials specified herein shall be of the best quality available for the use intended. Materials deemed by the Departmental Representative as being unsuitable shall be rejected and replaced by acceptable material. |
|                      | .2 Materials shall conform to the requirements and details indicated on the drawings and to the latest standards of the following regulatory agencies:  |

- .1 Canadian Government Specification Board;
  - .2 Canadian Standards Association;
  - .3 Canadian Lumbermen's Association  
Standard Grading Rules;
  - .4 Plywood Manufacturer's Association of  
British Columbia;
  - .5 British Columbia Lumber Manufacturer's  
Association;
  - .6 National Building Code of Canada.
- .3 Dimension Lumber: to CSA 0141-05 and  
species group to CSA 086-01 as listed and  
to National Grades Authority Standard  
Grading Rules 1970 - Grade category as  
follows:
- .1 Structural light framing: species Group  
D, No. 1 grade.
- .4 Plywood shall be as follows:
- .1 Plywood shall be good one side (G1S),  
waterproof, Douglas Fir Plywood, conforming  
to CSA Standard 0121-08.
- .5 Clapboard Siding: Western Lodgepole Pine or  
Eastern Spruce, No. 1 select or better  
grade, factory finished, saw texture, bevel  
profile, cove or V-joint pattern, free of  
large knots, knot holes, or loose knots:  
maximum moisture content of 12 percent.  
Size: 16 mm thickness, 150 mm width, 114 mm  
actual coverage. Moldings and trim:  
Western Lodgepole Pine or Eastern  
Spruce, No. 1 select or better grade,  
factory finished same as siding. Pre-  
finish color: Thermoplastic acrylic latex  
emulsion, factory coated under controlled  
environment conditions by a modified vacuum  
coat method, one prime coat and one finish  
coat, applied to all board surfaces,  
minimum 0.15 mm dry film thickness.  
Standard color or custom color from  
manufacturers range of colors. Touch-Up  
Paint: Thermoplastic acrylic latex  
emulsion, same type and color as siding.  
Colour as selected by Departmental

Representative.

- .6 Nails, spikes and staples to CSA Bill-1974 (R2003); galvanized for exterior work, interior highly humid areas and for treated lumber; plain finished elsewhere. Use spiral thread nails except where specified otherwise. Nails 64mm long for siding and 83mm for trims, or as otherwise required.
- .7 Paint:
  - .1 Exterior Door: factory paint, colour as selected by Departmental Representative.
  - .2 Concrete Floors: 2 coats Floor Enamel, colour similar to concrete.
- .8 Asphalt Shingled Roof:
  - .1 Shingles shall be # 1 Quality mineral surfaced asphalt, square butt shingles, 3 in 1 type, 10.25 kg/m to CSA Specification A-123-1, black. Eave flashing strip shall be No. 15 asphalt saturated felt layed in two piles lapped 480 mm and cemented together, or 20 kg roll roofing.
  - .2 Plastic cement shall conform to CGSB 37-GP-5.
  - .3 Nails shall be 25 mm long No. 10 corrosive resistant annular ringed with 10 mm head.
  - .4 Staples shall not be less than 19 mm long, 16 gauge, with not less than 25 mm crown.
  - .5 Asphalt primer to CGSB 37-GP-9.
- .9 Steel Doors and Frames:
  - .1 Doors to be 18 gauge and frames to be 16 gauge fabricated from commercial grade hot rolled and pickled plain sheet steel to ASTM A569 with "wiped coat" finish to ASTM A525, reinforced at hinge, lock and strike.
  - .2 Doors shall be stiffened, insulated and sound deadened with a solid slab of polyurethane core completely filling the inside of the door.

- .10 Finish Hardware: Insulated Hollow Metal Door, pressed steel frames 1½ pair stainless steel hinges with non-removable pins, 1 only deadbolt and stainless steel passage set, 1 only aluminum door closure cush operation, 1 set weatherstripping W14, 1 only aluminum threshold weatherstripped and suitable for an in-swing door.
- .11 Insulation:
  - .1 As noted on drawings.
- .12 Aluminum Thread Plate: to CSA HA.4.
- .13 Ridge vents as shown, galvanized or aluminum, to requirements of National Building Code.

### PART 3 - EXECUTION

#### 3.1 WORKMANSHIP

- .1 Rough and finished carpentry shall be executed by mechanics skilled in the trade. All work shall be neatly and accurately erected, scribed and fitted to produce closed joints and connections. Only expert workmanship will be accepted and work which, in the opinion of the Departmental Representative, is not of first class quality, will be rejected and replaced at no cost to Canada.
- .2 Install rough blocking securely to preset anchor bolts. Blocking shall be of the proper size to accurately align to adjoining surfaces to receive cant boards, frames and other items detailed on the drawings and to be installed under this section.
- .3 Finish carpentry to receive paint or

varnish finished shall be neatly erected, joined, sanded and have all nail heads set and puttied, ready for finishing.

### 3.2 EXCAVATION

- .1 Excavate and backfill as required to provide bearing surface acceptable to Departmental Representative. Re-grade crushed stone underlying floor slab to provide positive drainage.
- .2 Compact material under floor slab and foundation walls to 95 percent proctor density.
- .3 Departmental Representative to approve all backfill and compaction prior to construction of building floor. Finished grade around the building to be graded away from building at minimum 2% slope to provide positive drainage.

### 3.3 INSTALLATION

- .1 Do concrete work to conform with standards set forth in Section 03 30 00.
- .2 Install new siding and attachments sequentially to manufacturer's instructions.
- .3 Install exterior corners, fillers and closure strips with carefully formed and profiled work using concealed fasteners.
- .4 Maintain joints in exterior sheets, true to line, tight fitting.
- .5 Caulk and seal in accordance with paragraphs 4.6.2 and 4.6.3 of CGSB 93-GP-5M with sealant.
- .6 Provide all components including drip and cap flashings, screws and fasteners as required to complete installation.

- .7 Apply paint material to CGSB 85-GP series standards and in accordance with materials manufacturer's recommendations.
- .8 Install shingles and eave flashings in accordance with manufacturer's recommendations.
- .9 Install pressed steel door frame plumb, square, level and at correct elevation. Insulate exterior frames with batt insulation. Secure anchors and connections to adjacent construction.
- .10 Install hollow metal doors and hardware in accordance with manufacturer's instructions.