

### **PART 1 – GENERAL**

- 1.1 Related Work .1 Concrete Reinforcement: Section 03200
- .2 Cast-in-Place Concrete: Section 03300
- 1.2 References .1 Do concrete formwork in accordance with ACI-347-78 CAN3-A23.1-M94, except where specified otherwise.

### **PART 2 – PRODUCTS**

- 2.1 Materials .1 Formwork lumber: plywood and wood framework materials to CAN3-A23.1-M94.
- .2 Pan forms: removable as indicated.
- .3 Form ties:  
.1 Removable or snap-off metal ties, fixed or adjustable length, free of devices leaving holes larger than 25 mm (1 in.) dia. in concrete surface.
- .4 Form liner:  
.1 Plywood: Douglas Fir to CSA O121-M1978.
- .5 Form release agent: chemically active release agents containing compounds that react with free lime in concrete resulting in water insoluble soaps, preventing concrete from sticking to forms.
- .6 Falsework materials: to CSA S269.1-1975.

### **PART 3 – EXECUTION**

- 3.1 Fabrication and Erection .1 Verify lines, levels and centres before proceeding with formwork/falsework and ensure dimensions agree with drawings.
- .2 Construct forms to produce finished concrete conforming to shape, dimensions, locations and levels indicated within tolerances required by CAN3-A23.1-M94.
- .3 Construct falsework in accordance with CSA S269.1-1975.

- .4 Obtain Consultant's permission before framing openings not indicated in concrete joists, beams or columns.
- .5 Obtain Consultant's approval for use of earth forms.
- .6 Hand trim sides and bottoms and remove loose earth from earth forms before placing concrete.
- .7 Align form joints and make watertight. Keep form joints to minimum.
- .8 Refer to architectural drawings for concrete members requiring architectural exposed finishes.
- .9 Do not place shores and mud sills on frozen ground.
- .10 Provide site drainage to prevent washout of soil supporting mud sills and shores.
- .11 Fabricate and erect formwork in accordance with CAN/CSA-S269.3 to produce finished concrete conforming to shape, dimensions, locations and levels indicated within tolerances required by CAN/CSA-A23.1.
- .12 Align form joints and make watertight. Keep form joints to minimum.
- .13 Form chases, slots, openings, drips, recesses, expansion and control joints as indicated.
- .14 Clean formwork in accordance with CAN/CSA-A23.1, before placing concrete.
- .15 Leave formwork in place for following minimum periods of time after placing concrete.
  - .1 3 days for walls and sides of beams.
  - .2 3 days for columns.
  - .3 3 days for beam soffits, slabs, decks and other structural members.
  - .4 2 days for footings and abutments.
- .16 Re-use formwork and falsework subject to requirements of CAN/CSA-A23.1.

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