

## 2012 Central Regional Skills Competition

### Scope Document

Hunting Hills High School

April 19, 2012

<b>EVENT:</b> Cabinet Making	<b>LEVEL:</b> Secondary
<b>TIMES:</b> Orientation/Registration: 8:30 AM Competition Start Time: 9:00 AM Lunch Break (1/2 hour – lunch will be provided): 12:00 PM	<b>LOCATION:</b> Hunting Hills High School 150 Lockwood Ave Red Deer, AB
<b>DURATION:</b> 6 Hours	<b>REGIONALIZED:</b> Yes
Number of Competitors That Will Qualify for the 2012 Provincial Skills Canada Competition: 2	

#### GENERAL DESCRIPTION

The Skills Canada Alberta regional cabinet making competition sees competitors build a provided woodworking project. Starting from provided drawings and diagrams, the project is built during the allotted construction time. The competitors are judged based on the quality of their project in the face of the judging criteria.

The competition's purpose is:

- To test a sample of relevant theoretical knowledge, and provide an opportunity for contestants to demonstrate competence with and the mastery of hand tools, portable power tools, cutting edges, interpretation of drawing and specifications, joinery techniques, and problem solving.

Knowledge to be tested:

- Safety
- The nature and properties of wood
- Stationary and portable woodworking tools and stationary
- Hand tools
- Methods of work
- Joinery
- Adhesives
- Abrasives

Practical skills to be tested:

- Use of edge cutting tools such planes and chisels
- Proper layout and cutting of dovetails
- Accurate measuring
- Cutting of sheet stock with a table saw
- Proper assembly techniques using clamps and adhesives
- Interpretation of drawings and specifications
- Solving construction problems
- Time management
- Final surface preparation before finishing

### Theory Exam:

The theory exam will be comprised of eighteen multiple-choice questions.

### EQUIPMENT & MATERIALS

#### Equipment and Materials Competitors Must Supply:

All competitors must bring a metric/imperial tape measure and a sharp pencil. Any personal hand-tools can be brought if preferred, but they will be supplied by the committee.

#### Equipment and Materials Supplied by the Committee:

All the necessary hand tools, wood materials and machinery will be supplied by the committee.

### SAFETY

The health, safety and welfare of all individuals involved with Skills Canada Alberta are of vital importance. Safety is a condition of participation with Skills Canada Alberta and shall not be sacrificed for the sake of expediency. At the discretion of the judges and technical committees, any competitor can be denied the right to participate should they not have the required proper safety equipment and/or act in an unsafe manner that can cause harm to themselves or others.

### COMPETITORS MUST SUPPLY THE FOLLOWING:

- CSA Approved steel toed shoes/work boots
- CSA Approved safety glasses
- Appropriate work clothing

\*CSA hearing protection will be supplied by the committee

### JUDGING CRITERIA

- Use of edge cutting tools such as planes and chisels
- Proper layout of dovetails
- Accurate measuring
- Cutting of sheet stock with the table saw
- Proper assembly techniques using clamps and adhesives
- Interpretation of drawings and specifications
- Solving construction problems
- Time management
- Final surface preparation before finishing

### RELATED CAREER AND TECHNOLOGY STUDIES COURSES

Descriptions of all modules are located at the following website:

<http://www.education.gov.ab.ca/cts>

CON 1010: Construction Tools and Materials

CON 1120: Product Management

CON 1130: Solid Stock Construction

CON 1160: Manufactured Materials

CON 2130: Furniture – Box Construction

CON 3130: Furniture – Leg & Rail



**ADDITIONAL INFORMATION**

Lunch will be provided for competitors.

Parking Information & Venue Maps: Park on west side of school in student parking area.

Awards Ceremony Information: Awards to be handed out immediately following the judging.

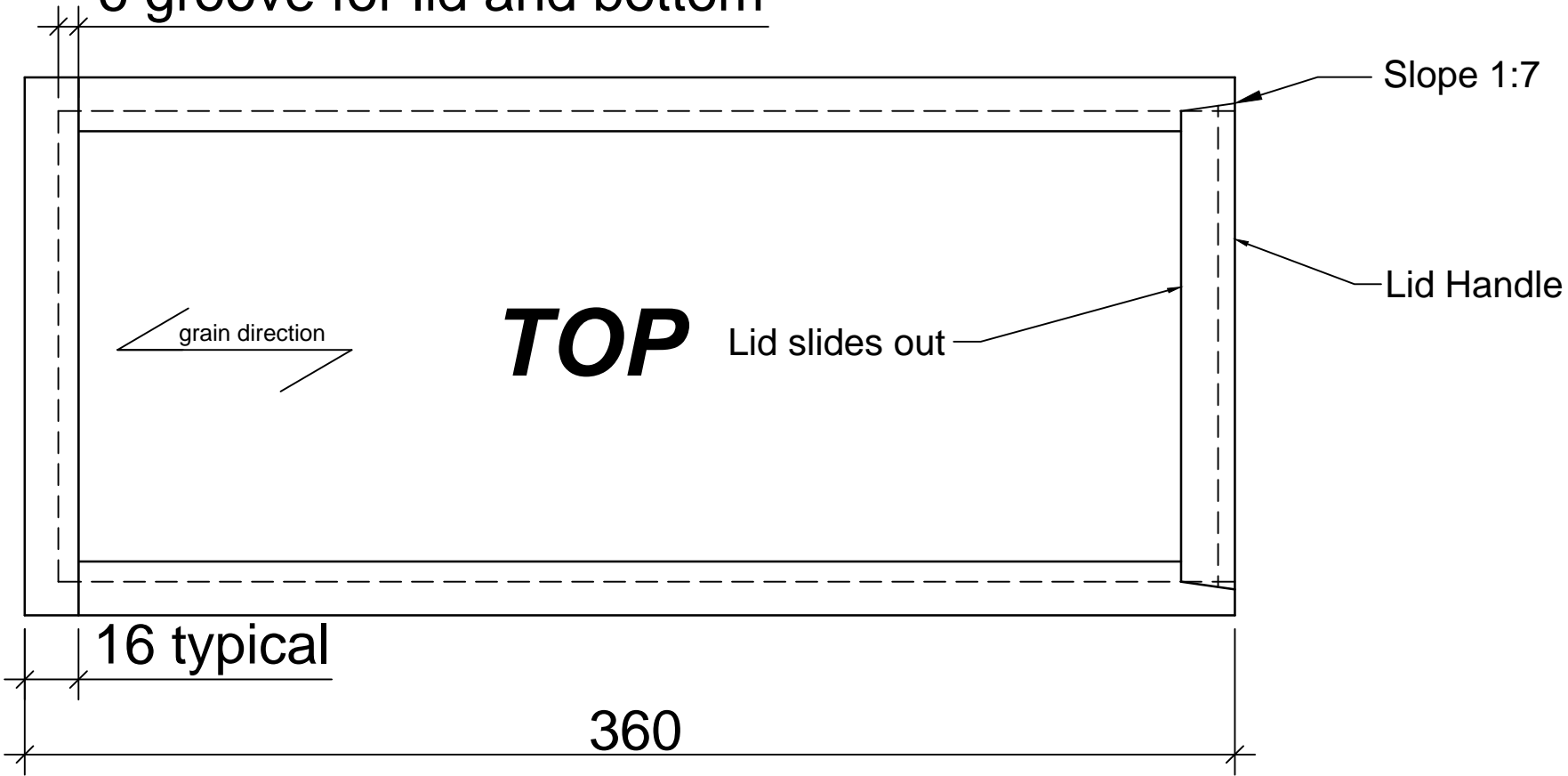
**COMMITTEE MEMBERS**

Dan Johnson- HHHS

Dan Godwin

Steve Jano

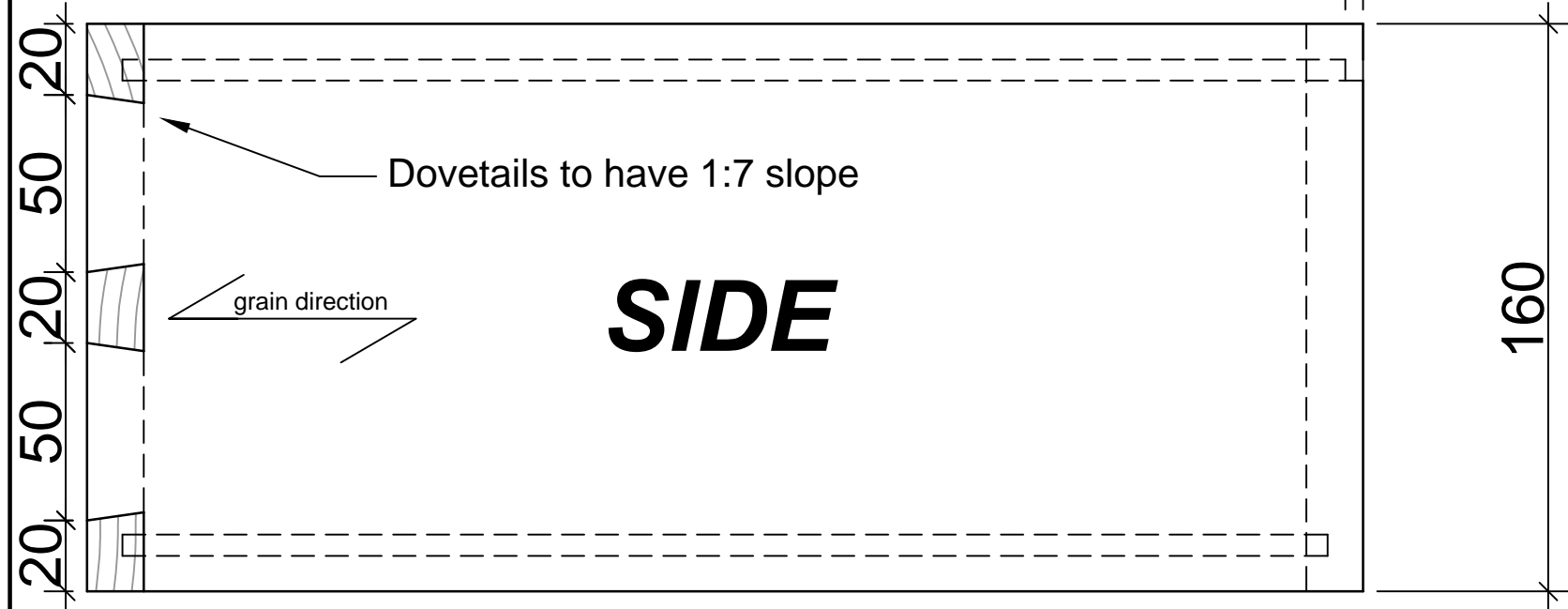
6 groove for lid and bottom



16 typical

360

5



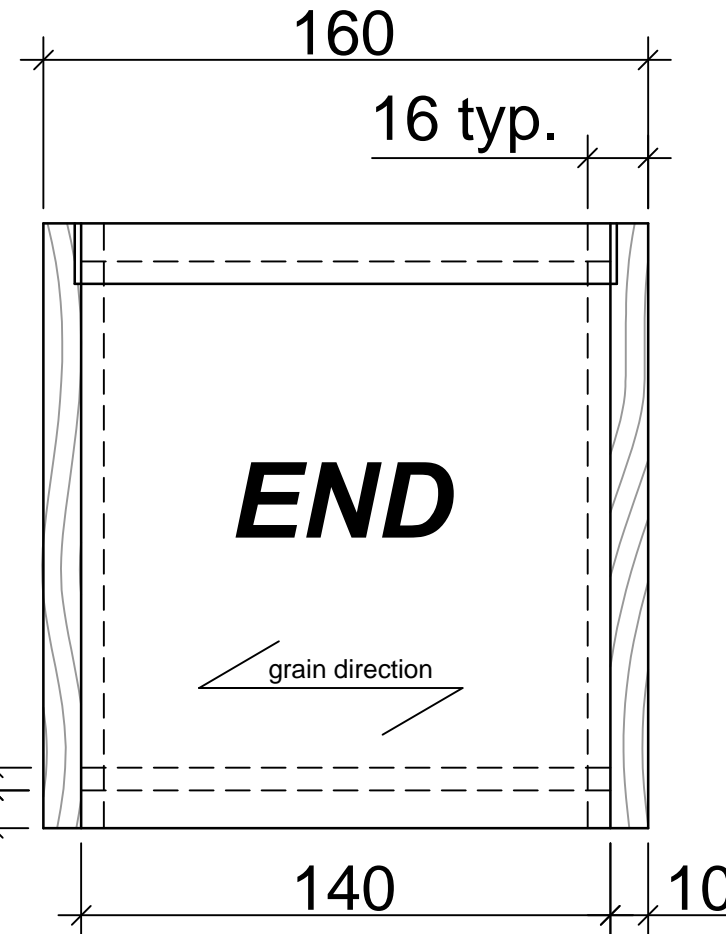
Dovetails to have 1:7 slope

**SIDE**

160

10 typ.

6 typ.



160

16 typ.

**END**

grain direction

140

10

### NOTES

- Box sides are from 16 mm thick aspen
- Box ends are from 16 mm thick mahogany or walnut
- Top and bottom panels are from 6 mm thick plywood
- One end of box joined to sides with hand-cut through dovetails at a 1:7 slope
- The other end of box is joined to sides in a 16 mm x 6 mm rabbet
- Handle is fastened to sliding top panel with 11mm x 6 mm rabbet
- All joints glued and clamped; no nails

2012 Cabinetmaking Regional  
Skills Competition Project  
Scale - 1:2