Large Scale Model Railway Engineering

As promised last month, this month we will begin presenting drawings for the 36 foot logging flats. The drawings for the parts made out of angle and channel are included to be followed next month be the parts made from flat bar. Some of these parts will also be used on future cars so even if you are not building these flats hang on to the drawings, you may need them later.

The parts shown, can be cut to length on a cutoff saw (or with a hacksaw) and simply deburred to remove the sharp edges. Parts CD-121 and CD-122 have notches cut or milled in the center so that they will eventually fit around the center sill of the car. The center sills are so arranged that the coupler assemblies that we described last month will slide nicely inside as will be seen next month when we show the car assembly.

Floors of the car is constructed out of 1/4 x 1 1/2 strips sawed from pressure treated two by fours. Four 4-40 machine screws are used to hold each board in place. If one was lazy pieces of grooved plywood could be used but that just does not give the same affect as individual boards. More on this next month.

In the July newsletter I will show how to make the fixtures for mass producing the grab irons and stirrups for these and the other cars to follow.
<table>
<thead>
<tr>
<th>PAR NO</th>
<th>USAGE</th>
<th>A DIM</th>
<th>B DIM</th>
<th>C DIM</th>
<th>REQD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD-119-1</td>
<td>CAR SIDES</td>
<td>1.00</td>
<td>1.00</td>
<td>53.50</td>
<td>2</td>
</tr>
<tr>
<td>CD-119-2</td>
<td>LOG WEDGES</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>8</td>
</tr>
<tr>
<td>CD-119-3</td>
<td>CAR CORNERS</td>
<td>1.00</td>
<td>1.00</td>
<td>1.50</td>
<td>4</td>
</tr>
</tbody>
</table>

**Diagram:**

- **A**: 1.00
- **B**: 1.33
- **C**: 53.50

**Annotation:**

- SAW SQUARE AND DEBURR

**Notes:**

- DO NOT SCALE DRAWING
- TOLERANCES UNLESS OTHERWISE SPECIFIED
- ANGLED 4" Place 0.025

**Material:** 1/8 ANGLE

**PIKE LAKE & EASTERN**

**Hartford Shops**

<table>
<thead>
<tr>
<th>ORG</th>
<th>DATE</th>
<th>FILE</th>
<th>SCALE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

**Title:** ANGLE, 36 FOOT LOG

**Sym | ECO | Revision | By Date | No.**

**CD-119**
SAW SQUARE AND DEBurr

MATERIAL: 1 1/2 X 1/2 X 1/8 STEEL CHANNEL

PIKE LAKE & EASTERN
Hartford Shops

<table>
<thead>
<tr>
<th>NO.</th>
<th>TA</th>
<th>DATE</th>
<th>SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>S-1-84</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SYM</th>
<th>EOC</th>
<th>REVISION</th>
<th>BY</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-100</td>
</tr>
</tbody>
</table>

TITLE: CHANNEL, UNDER FRAME

CD-121

DO NOT SCALE DRAWING
TOLERANCES
UNLESS OTHERWISE SPECIFIED
ANGLES 45°
DECIMALS 3 PLACES 1.000
DECIMALS 2 PLACES 0.50

SHEET 1 OF 3
SAW SQUARE AND DEBURR

Ø0.50 DRILL THRU

PIKE LAKE & EASTERN
Hartford Shape

MATERIAL: 1/4" X 2' HR. FLAT

DO NOT SCALE DRAWING
TOLERANCES
UNLESS OTHERWISE SPECIFIED:
ANGLES: ±1°
DECIMALS: 12 PLACES: ±0.005

PAD, TRUCK
CD-123
DEBURR BOTH ENDS AND HOLE
NOTCH FLOOR FOR STAKE POCKETS
SAW SQUARE AND DEBURR

MATERIAL: 1 1/2 X 1/2 X 1/8 STEEL CHANNEL

PIKE LAKE & EASTERN
Hartford Shops

<table>
<thead>
<tr>
<th>TITLE</th>
<th>NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHANNEL, END SILL</td>
<td>CD-147</td>
</tr>
</tbody>
</table>

DO NOT SCALE DRAWING
TOLERANCES
UNLESS OTHERWISE SPECIFIED

HALES
H: 1/16
DECIMALS: 1/32 PLACED #.000
1/32 ROSES: ± .05