Laboratory work N2
Information on Templates

The ***purpose*** of this work is to get familiarized with the kinds of information given on templates and to acquire basic skills of template information reading and deciphering (decoding).

1. Designation on templates (General Information on Template)

- ✓ Code of template
- ✓ Code of Product (Airplane type, as a rule)
- ✓ Code of Part (Drawing code or code according to the part list of unit assembly drawing)
- ✓ Material of Part
- ✓ Source of information for template producing
- ✓ Amount of parts
- ✓ Number of the shop-manufacturer
- ✓ Clock number of workman produced the template
- ✓ Date of template manufacturing
- ✓ Countermark of employee of the shop technical control bureau

The **example of template designation** and **its deciphering** (decoding)

2. Holes in Templates

Hole	Hole Name	Hole Purpose
ВН - БО -		
РН - ШО -		
ІН - ИО -		
АН - СО -		
АFН - УФО -		
СFН - КФО -		
МН - МО -		
GН - НО -		

3. Special Information on Templates

Special information about design features of the part is given on templates by lines and abbreviations. Full list of adopted designations is given in special manufacturing instruction (the kind of enterprise standard or industry branch standard). The most usable kinds of designations are the follows:

Information of **lines**

Bending line (draw an example)

Trimming (cutting) line (draw an example)

Flange (Bended Side) – Борт - is designated as “Б” with additional information:

- “НБ”_____- without flange (no flange);
- “БН”_____ - flange downward;
- “БВ”_____ - flange upward;
- “СБ”_____ - canted flange;
- “ПБ”_____ - variable flange;
- Value ___ - flange width;
- “R”_____ - inner radius value;
- “М”_____ - beveled flange; “+” means open bevel, “-” – closed one.

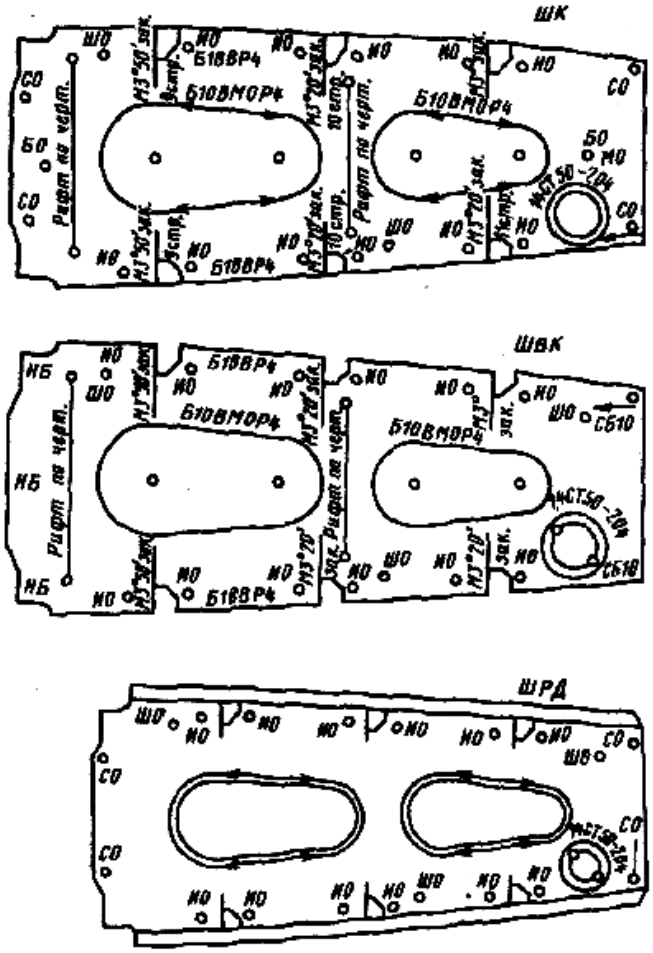
(Draw an example of part and part template of contour with designations)

Riffle – Рифт - is designated by riffle axes and contour and by abbreviation “РФ” with additional information about its radius (R), height (just the value) and direction (“В”, “Н”)

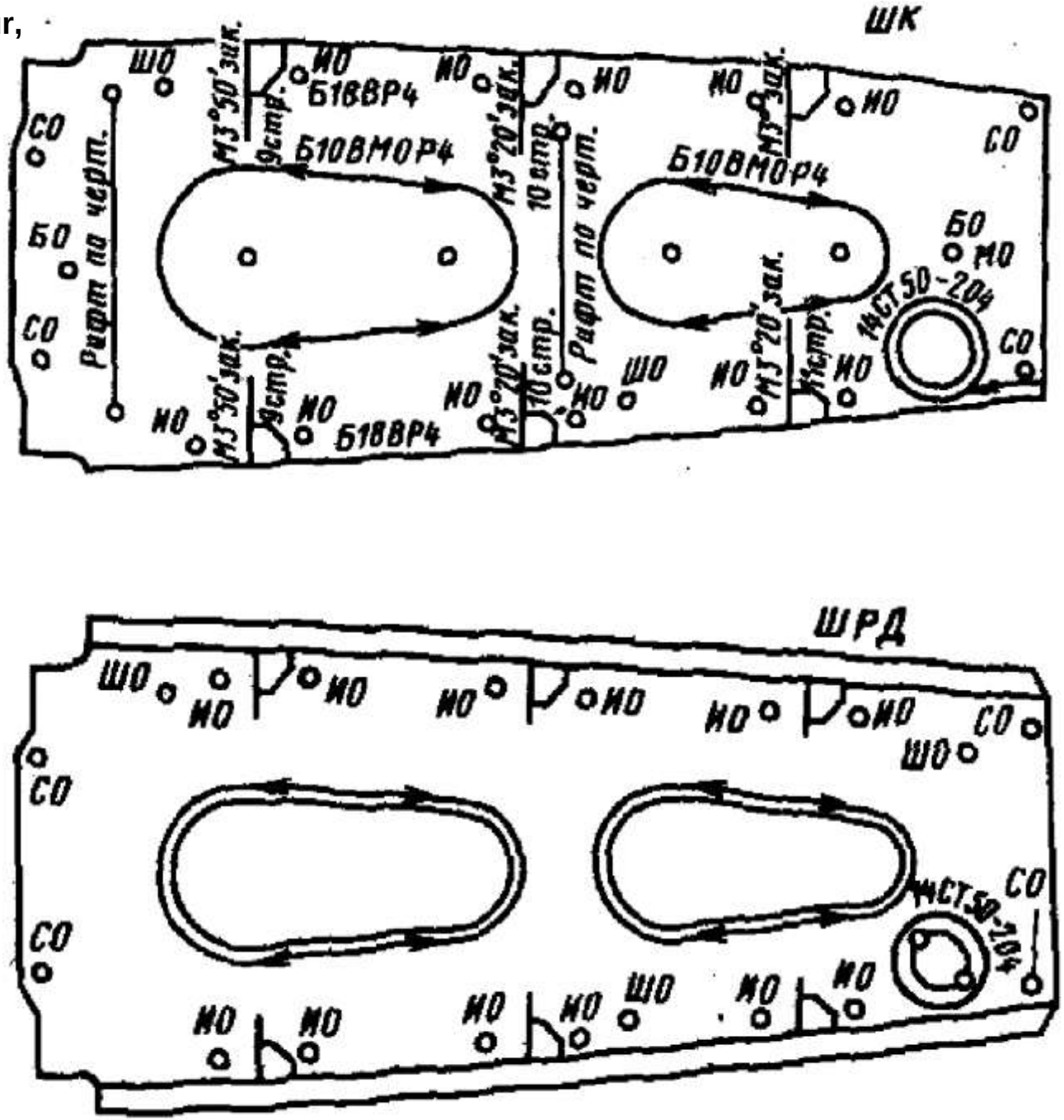
Joggle – Подсечка - is designated by two bending lines (the joggle beginning and the ones end) and by abbreviation “П” with additional information about joggle height and direction (“В”, “Н”). In the more complex cases of joggle (canted joggle, for instance) the arrow with designation of direction and angle value is showed.

(Draw an example of part and part template of contour with designations)

The dimensions transferring from the primary template (Template of Contour, in Russian - ШК) to the other templates of this template part set



The Part Set of Templates for the Wing Rib



3. Sketches of Template and the “Reconstructed Part”