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## SECTION 24 – SIDE FORMS AND HEADERS

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### **24-1 GENERAL**

Side forms and headers for portland cement concrete pavement or asphalt concrete pavement shall be furnished and placed upon an approved subgrade as prepared in conformance with the requirements of Section 18, "Earthwork", of these Specifications. All requirements specified in this Section for forms shall also apply to headers. All forms shall be mortar tight.

Side forms of timber or metal shall be straight, free from warps, bends, indentations, or other defects. The top edge of each individual section of form shall not vary more than one quarter inch (1/4") from a true, straight line in the length of the form, and shall be placed to the required grade and alignment of the edge of the finished pavement. Side forms shall not deflect during placing, tamping and finishing of the pavement. Side forms shall not deviate laterally more than one-quarter inch (1/4") or vertically more than one-eighth inch (1/8") from proper line and grade. Defective forms shall be removed from the Work.

All forms, whether timber or metal, shall be thoroughly cleaned and oiled before each time they are used throughout the Work.

### **24-2 FORM JOINTS**

Form joints shall be so designed that a perfect support is obtained, and in case joints do not furnish such support, the Contractor will be required either to substitute acceptable forms or, with the approval of the City, to wedge the forms with wood and provide double supporting stakes underneath the form ends. There shall be a one-quarter inch (1/4") expansion gap between the ends of the frame.

### **24-3 TIMBER SIDE FORMS**

Timber side forms shall be Construction Grade Douglas Fir, in accordance with Standard Grading Rules of the Western Wood Products Association, and shall consist of at least two-inch (2") material, surfaced on one edge and on the side which is placed next to the pavement. The depth of timber forms shall equal the specified depth of the edge of the pavement, but shall not be less than four inches (4"), except where placed on existing pavements. Timbers with rounded edges, ends, corners, or split ends shall not be used.

Timber side forms shall be secured by nailing to side stakes spaced not more than 4 feet (4') apart and driven vertically in such a manner that their tops are one inch (1") below the top edge of the side form. Stake dimensions shall not be less than three inches (3") wide, one and one-half inches (1-1/2") thick, and eighteen inches (18") long. Stake length shall be increased when the character of the soil does not permit sufficient bearing to an eighteen-inch (18") stake. Side form joints shall be spliced with a section of timber four feet (4') long, one inch (1") thick and six inches (6") wide. The splice section shall be nailed lengthwise, lapping the joints. Timber side forms shall be supported on two-inch by three-inch (2" x 3") stakes, spaced not more than four feet (4') apart and driven with their tops to the line and grade for the bottom of the side form. These stakes shall be of adequate length to rigidly support the forms, but in no case shall they be less than eight inches (8") long.

### **24-4 METAL SIDE FORMS**

Metal side forms shall have sufficient rigidity to prevent springing during the placing, tamping and finishing of the pavement. The depth of the metal side forms shall equal the specified depth of

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the edge of the pavement. Forms shall be of the full depth required, in one piece. Splicing of forms by the addition of a wooden base will not be permitted.

Metal side forms shall be supported at each end on a two-inch by three-inch (2" x 3") stake. Stakes shall be of adequate length to rigidly support the form, but in no case shall they be less than eight inches (8") long. The stakes shall be driven with their tops to the line and grade for the bottom of the side form.

Metal forms shall be staked firmly by means of steel stakes, placed not more than five feet (5') apart, and shall be so designed that stakes may be driven through the base of the form and locked in position.

### **24-5 FORM MAINTENANCE**

Side forms of either wood or metal shall be furnished, installed, and maintained to the required line and grade at least one day ahead of the placing of portland cement concrete or asphaltic concrete. When side forms do not conform to the correct line and grade, or have become loose, this shall be considered sufficient cause to stop work until the side forms are corrected by the Contractor, to the satisfaction of the City.

### **24-6 PAYMENT**

Full compensation for furnishing and placing side forms and headers is included in the prices paid for the various items of work involving the use of side forms and headers and no separate payment will be made.