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S P E C I F I C A T I O N S

FOR THE CONSTRUCTION OF WALL, STEPS AND SIDE WALKS ON WALNUT STREET, ST. PAUL.

The owner does not bind himself to accept the lowest or any bids.

A Bond of 30% of amount of contract to be required.

EXCAVATING:

Do all necessary excavating for the completion of the work, according to the sections indicated, smoothed off to a generally even surface. Do all refilling, packing solid against all walls and bring to a true and even grade indicated on the drawings, and slope the work in any direction as may be required to make a perfect and complete job of the work. The bottoms of all trenches must be examined and approved by the superintendent before commencing to lay the concrete, and soaked with water if directed.

CONCRETE WORK:

The concrete to be composed of four parts of broken stone; no stone to be larger than will pass through a two inch ring, and to be clean and of approved quality, mixed with two parts of clean coarse sand, and one part of best Utica cement or other approved cement, mixed and put in place in the best possible manner; the whole to be well rammed in layers, not more than six inches thick, left true and even at the proper elevations for masonry.

MASONRY:

The wall to be built of the best quality of Kettle River Sand Stone of even color, free from all defects which will mar its appearance, and in all cases must be cut to set on natural beds bonded with through stones not less than eight feet apart in length, and not more than every two feet apart in height, alternating throughout the work, all solidly bedded and flushed solid with spalls and cement mortar. All joints to be flushed full on both sides, and where exposed to view to be carefully pointed with cement joints as directed, the work to be laid in courses as shown on the drawings. No joints to exceed one half of one inch and to be uniform throughout the work. All rock faced work to be free from tool marks.

MORTAR:

The mortar to be composed of one part of fresh "Utica", or equally good cement, with two parts clean coarse sharp sand, well mixed with sufficient quantity of clean water, and to be immediately used in the work.

CUT STONE STEPS, &c, ©

All steps and landings to be of sawed Kettle River Sand Stone of the proper widths, thicknesses and lengths as shown, with gutter cut in ends against old wall, all to be properly set in place; the steps will vary in thickness according to location, which must be figured out of the site of the work. All work to be set in cement mortar as before specified, and in a thorough and workmanlike manner. Steps to be set with an inclination of $\frac{1}{4}$ inch to the foot towards the present retaining wall where gutter cut in steps is formed.

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WALKS, &c.:

All stones for walks to be of sawed Kettle River Sand Stone not less than six inches in thickness, set in a proper bed of suitable sand, and set in the best possible manner, true and even surfaces properly bonded across the walks. All joints to be filled clear to the bottom of the stones with cement mortar as heretofore specified for mortar, left smooth and flush at the surface of the paving. All paving for walks to be inclined $\frac{1}{4}$ inch to one foot towards the present retaining wall, and gutter to be formed with approved Portland cement mixed one to two with clean sharp sand, and set not less than six inches deep, with gutter formed as shown and extending the full length of walks.

BRICK AND BRICK WORK:

The walls under the ends of steps against old wall to be built of hard burned bricks, 8" thick, laid in cement mortar in the best possible manner, giving all steps a good and solid bearing.

CARPENTER WORK:

Provide and set in wall where shown a wood frame 2" x 10", well and properly framed and set in place for a door not less than three feet in width in the clear, the door to be made in two thicknesses 2nd fencing not more than four inches wide, dressed and matched, well and properly clinched together; hing with extra heavy 10" T hinges with proper screws, with approved lock and keys; the door and frame to receive three coats of white lead and oil of colors to be hereafter directed.

Do all drilling of holes necessary for the iron railing, as shown on plan, and for three gas fixtures in the retaining wall.

NOTE:

The contractor will furnish all labor and materials for the completion of this work in accordance with the plans and these specifications, and to the entire satisfaction of the owner or his agent, making the whole complete in every respect.

Remove all rubbish, both from the excavations and sand rock, and all other debris caused by this work, leaving the place clean and neat ready for public convenience.