

SLUICE GATE

**\*\*From Bennington AC NH 019-1(52)**

xx. DESCRIPTION. This work shall consist of designing, fabricating, furnishing, and installing a new sluice gate, operator, and outlet pipe at the locations indicated in the Plans and as directed by the Engineer.

xx. MATERIALS. Materials shall meet the following requirements:

Sluice gate shall meet requirements of AWWA Specification C501. Gate shall be capable of a 6 meter (20 feet) seating head condition, with the allowable leakage not exceeding 0.38 L/min (0.1 gal/min) of seating perimeter.

The frame and guide rails shall be cast iron construction. Frames shall be extended flange type with round openings as shown in the Plans. The frame shall be provided with pads which shall be machined, drilled, and tapped for the mounting of the wedge devices. The back of the frame flange shall be machined to a plane and drilled to match the pipe flange.

The cover shall be one piece cast iron or bronze construction with sufficient ribs, a reinforced pocket to receive the thrust nut, and pads to receive the wedges. All wedge pads shall be machined, drilled, and taped to receive the wedge devices.

Seats shall be of bronze which shall be permanently attached to both the frame and cover.

The sluice gate shall incorporate a cast iron yoke which shall be designed to transfer the lift thrust to the gate frame and attaching hardware. A handwheel operator with locking device shall be provided.

Sluice gate shall be mounted to a flanged end pipe as shown in the Plans. Pipe shall be Class 53 ductile iron pipe conforming to ANSI/AWWA C115/A21.15.

xx. INSTALLATION. Installation of the gate and operator shall be in accordance with the manufacturer's recommendations.

xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Sluice Gate) to be measured for payment will be on a lump sum basis in the complete and accepted work.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Sluice Gate) will be paid for at the Contract lump sum price. Payment will be full compensation for furnishing and installing the new ductile iron pipe, sluice gate, operator, and attachments; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Pay Unit

10/2/2012

900.645 Special Provision (Sluice Gate)

Lump Sum