

NATURAL RESOURCES CONSERVATION SERVICE

CONSTRUCTION SPECIFICATION

558 - ROOF RUNOFF STRUCTURE - GUTTERS & DOWNSPOUTS

1. SCOPE

This work shall consist of furnishing materials, fabricating, installing, and constructing the gutter and downspout system. This work may include but is not limited to preparing the roofline and fascia, installing the hangers and roof gutters, installing the brackets and downspouts, and other related appurtenances. These items shall be installed as shown on the drawings and as specified herein.

Prior to commencing construction, public utilities shall be notified in accordance with N.Y.S. Industrial Code 753.

2. MATERIALS

Roof gutters and downspouts shall be aluminum with baked enamel finish, galvanized steel, or other approved material. If roof gutters and downspouts are aluminum, they shall have a nominal thickness of 0.027 inches for gutters and 0.020 inches for downspouts, and if galvanized steel, a minimum thickness of 28 gauge.

Dissimilar metals shall not be in contact with each other.

All gutters will have end caps.

3. INSTALLATION

Gutters shall be placed below the roof slope line so ice and snow can slide clear. The top outer edge of the gutter shall be 1/2 inch below the projection of the roof slope line on roofs with steeper than 12H:5V pitch, and 3/4 inch below on roofs with 12H:5V pitches or flatter.

Supports

Rafter ends and fascia boards shall be sound. Gutters shall have continuous backing support with a vertical face. A wedge-shaped stringer may be used for support.

Hangers shall be located a maximum of 24 inches apart and nailed to the fascia board or roof sheathing at rafter locations.

Downspouts shall be securely fastened at the top and bottom with brackets that are of similar material as the downspouts and shall have intermediate supports that are a maximum of 10 feet apart.

Placement

All gutter joints shall be made watertight by use of mastic or caulking.

Gutters shall have expansion joints used on straight runs of 40 feet or more, unless the gutters are free floating or co-extruded and the manufacturer does not require expansion

joints.

Gutter slopes shall be installed as shown on the drawings.

### Outlets

The downspouts from the roof gutters are to outlet as shown on the drawings. When downspouts empty onto the ground surface, there shall be an elbow and splash pad installed or other approved method of directing the water away from the building.

4. MEASUREMENT AND PAYMENT

Method 1

For items of work for which specific unit prices are established in the contract, the length of the gutter and downspout system will be measured to the nearest linear foot, along the gutters. Payment will be made at the contract unit price. Such payment will constitute full compensation for all labor, materials, equipment, tools, and other appurtenances necessary and incidental to the completion of the work.

Method 2

For items of work for which specific lump sum prices are established in the contract, the quantity of the gutter and downspout system installation will not be measured. Payment for the gutter and downspout system will be made at the contract lump sum price. Such payment will constitute full compensation for all labor, materials, equipment, tools, and other appurtenances necessary and incidental to the completion of the work.

Compensation for any item of work described in the contract, but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary. Such items and the items to which they are made subsidiary are identified in Section 5.

5. ITEMS OF WORK AND ADDITIONAL CONDITIONS: