
Supplemental Technical Specification for
Bridge Lift Materials

SCDOT Designation: SC-M-205-3 (01/25)

APPROVED:
Division Administrator

By: _____
FEDERAL HIGHWAY ADMINISTRATION

1.0 DESCRIPTION

The requirements of this specification shall consist of furnishing all necessary submittals and materials for providing bridge lift materials in accordance with the details shown on the plans. The bridge lift materials shall be installed at locations shown on the plans, unless otherwise directed by the Department.

2.0 MATERIALS

The materials provided for under this specification shall be used for bridge lifts. Bridge lift materials shall consist of materials that can be placed through water or those materials that can be placed over soft exposed subgrades without water being present. The materials placed through water shall consist of stone materials. The materials placed on soft exposed subgrades may consist of stone materials, borrow materials or man-made materials.

2.1 Stone Materials: The stone materials shall meet the provision requirements as indicated in the following table.

Sieve Analysis	Percent Passing
2-inch	100
1.5-inch	90-100
No. 4	0-50
No. 16	0-6

The stone shall consist of durable particles that are comprised of naturally occurring materials including durable marine limestone. The natural materials shall have a dry unit weight of at least 90 pounds per cubic foot. The dry unit weight shall be a rodded unit weight determined according to AASHTO T-19M. The stone bridge lift materials shall be obtained from a source listed on *SCDOT Qualified Product List 2*.

2.2 Borrow Excavation Materials: Borrow excavation materials used as a bridge lift shall be limited to A-1, A-2 and A-3 materials (AASHTO M-145). The borrow excavation materials shall meet the requirements as described in the current edition of the SCDOT Standard Specifications for Highway Construction.

2.3 Man-Made Materials: Man-made materials shall conform to the latest requirements contained in Supplemental Technical Specification (STS) *Lightweight Aggregates* (SC-M-203-5). Recycled materials may not be used.

2.4 Submittals: The contractor is required to submit copies of gradation testing to the Department prior to delivery of the material to the site and at the discretion of the RCE as placement proceeds, if in the opinion of the RCE additional verification of the gradation is required.

3.0 METHOD OF MEASUREMENT

Stone bridge lift materials shall be measured by the ton (TON) when included in the Contract. Borrow excavation bridge lift materials shall be measured and included in the total borrow excavation material required for the project. Man-made bridge lift materials shall be measured as required in STS *Lightweight Aggregates* (SC-M-203-5).

4.0 BASIS OF PAYMENT

Unless otherwise specified, payment for the accepted quantity of material, as specified herein, measured in accordance with this specification, is determined using the contract unit bid price for the applicable pay item. Payment is full compensation for obtaining, hauling and placing the material and all other materials, labor, equipment, tools, supplies and incidentals necessary to satisfactorily complete the work as required in the Plans, Project Specifications and other terms in the Contract.

Payment of borrow excavation bridge lift material shall be included in the quantity of borrow excavation used on the project. Payment for man-made bridge lift material shall be included in the quantity for lightweight aggregates.

Payments shall be made under:

Item No.	Pay Item	Pay Unit
2052010	Stone Bridge Lift Material	TON