
Supplemental Technical Specification for

MANUFACTURED CONSTRUCTION ENTRANCE

SCDOT Designation: SC-M-815-21 (07/26)

1.0 Description

Install a Manufactured Construction Entrance, which is a series of manufactured mats designed for sediment removal and trackout control, at defined points of vehicular ingress and egress on construction sites to reduce the amount of mud, dirt, and rocks transported onto public roads by motor vehicles, equipment, and runoff. Taper the edges of the entrance out towards the road to prevent tracking of mud at the edge of the entrance, and so that vehicles do not leave the stabilized area when transitioning onto or off the paved roadway.

1.1 Materials

Provide a stabilized Manufactured Construction Entrance designed for the purpose of construction site trackout control that has the following material properties:

- Minimum Weight of 5 pounds per square foot
- UV Stable or Resistant
- Minimum thickness of 3.75"
- Manufacturer's approval for vehicles up to 80,000 lbs
- Minimum life expectancy of 5 years

Submit manufacturer's technical data sheet, installation guide, product maintenance guide, and layout data showing the size and arrangement of units comprising the Manufactured Construction Entrance. Units previously used in other locations are acceptable, provided they are in good condition and suitable for the use intended.

1.2 Construction Requirements

1.2.1 Installation

Install a Manufactured Construction Entrance at all defined points where traffic enters or leaves a construction site and moves directly off or onto a public road. Use Manufactured Construction Entrances in conjunction with the stabilization of construction roads to reduce the amount of sediment picked up by vehicles.

Ensure that the Manufactured Construction Entrance is a minimum of 24 feet wide by 55 feet long and modify as necessary to accommodate site constraints. Multiple mats should be used to meet the required dimensions. Taper the edges of the entrance out towards the road to prevent tracking of sediment at the edge of the entrance. Follow manufacturer's specifications to ensure proper installation.

Anchor the mats to the ground and interconnect them to each other to ensure no movement will occur, per manufacturer's recommendations.

If washing is used, make provisions to intercept the wash water and trap the sediment before it is carried offsite. Require washdown facilities as needed. In general, establish washdown facilities with crushed gravel for stabilization and provide drainage into an appropriate Best Management Practice (BMP).

Remove all vegetation and any objectionable material from the foundation area. Divert all surface runoff and drainage from the mats to an appropriate BMP. If necessary, install a culvert pipe beneath the entrance to provide positive drainage for the Manufactured Construction Entrance.

1.2.2 Inspection and Maintenance of Manufactured Construction Entrances

Inspect Manufactured Construction Entrances every seven (7) days. Check for sediment buildup and mat integrity. Clean mats as prescribed by the manufacturer or replace mats whenever the entrance fails to perform effectively or as directed by the Resident Construction Engineer (RCE). The mats in the entrance should be maintained or replaced whenever the entrance fails to reduce sediment transport by vehicles.

Reshape mats as needed for drainage and runoff control. Brush, shovel, or sweep up sediment that has accumulated on the mats and provide proper stabilization or disposal. Flushing should only be used when the water can be discharged to an appropriate BMP. Maintain the Manufactured Construction Entrance until the remainder of the construction site has been fully stabilized. Repair any broken pavement at roadway transition immediately.

If excessive sediment is being tracked onto the roadway, increase the length of the Manufactured Construction Entrance or consider alternative methods like vehicle washdown stations. For locations with washdown stations, appropriate BMPs must be constructed and maintained.

1.2.3 Acceptance

Obtain RCE acceptance and approval for Manufactured Construction Entrance installations and for the replacement of mats.

1.3 Measurement

The quantity of the pay item Manufactured Construction Entrance is the surface area of the Manufactured Construction Entrance in-place and is measured by the square feet (SF), complete, and accepted. When maintenance of the mats is no longer effective, the RCE may authorize replacements as necessary. The area of replacement mats in the Manufactured Construction Entrance is measured and added to the quantity of this item.

1.4 Payment

Payment for Manufactured Construction Entrance is full compensation for constructing Manufactured Construction Entrances as specified or directed and includes furnishing, installing, inspecting, maintaining, reshaping, removing, and disposing the Manufactured Construction Entrance; providing wash down facilities, drainage (culvert installations for Manufactured Construction Entrances are incidental); sweeping adjacent roadways as necessary or directed; and all other materials, labor, equipment, tools, supplies, transportation, and incidentals necessary to fulfill the requirements of the pay item in accordance with the Plans, Specifications, and other terms of the Contract.

Bid Item Number	Description	Units
8156480	Manufactured Construction Entrance	SF