

BMP 14.00. Prefabricated Driving Ground Protection Mat

DESIGN CONSIDERATIONS

Objectives

The purpose of a Prefabricated Driving Ground Protection Mat is to prevent rutting, minimize sediment tracking, protect wetlands from equipment damage, and avoid equipment getting stuck when driving through soft or muddy ground.

Description

Prefabricated Ground Protection Mats are flexible, sturdy fabric mats with ribs, or solid or flexible plastic mats or tiles.

Other Names

Mud Mats, Tundra Mats, Portable Access Mats, Temporary Roadway System.

Applicability

Prefabricated Driving Ground Protection Mats can be used to protect the ground surface from eroding when equipment is driving on it or to protect sensitive areas.

Selection Considerations

Prefabricated Driving Ground Protection Mats come in light- and heavy-duty grades. The grade of the mat needed should be determined based on the size and type of equipment that will use the mat, the frequency of use, and the type of ground the mat is protecting. Mats that are placed over a ground surface that requires preservation may require a heavier grade than mats placed on dirt surfaces without vegetation.

Prefabricated Driving Ground Protection Mats surfaces can be smooth or cleated to provide traction for vehicular traffic or pedestrians. When placed with the cleated side down, the cleats provide additional protection for solid surfaces such as concrete or asphalt surfaces.

- Prefabricated Driving Ground Protection Mats have the ability to interlock to form custom sizes.
- Ground pressure from vehicles may be reduced, causing minimal ground disturbance.

- Prefabricated Driving Ground Protection Mats can be rolled up or stacked for easy transport, storage, and reuse.
- Prefabricated Driving Ground Protection Mats can be washed and reused depending on the amount of wear.

Common Failures or Misuses

- Placement of reinforcing ribs in fabric mats parallel to the direction of traffic.
- Unless properly secured, mats can be dislodged or transported by traffic or high winds.

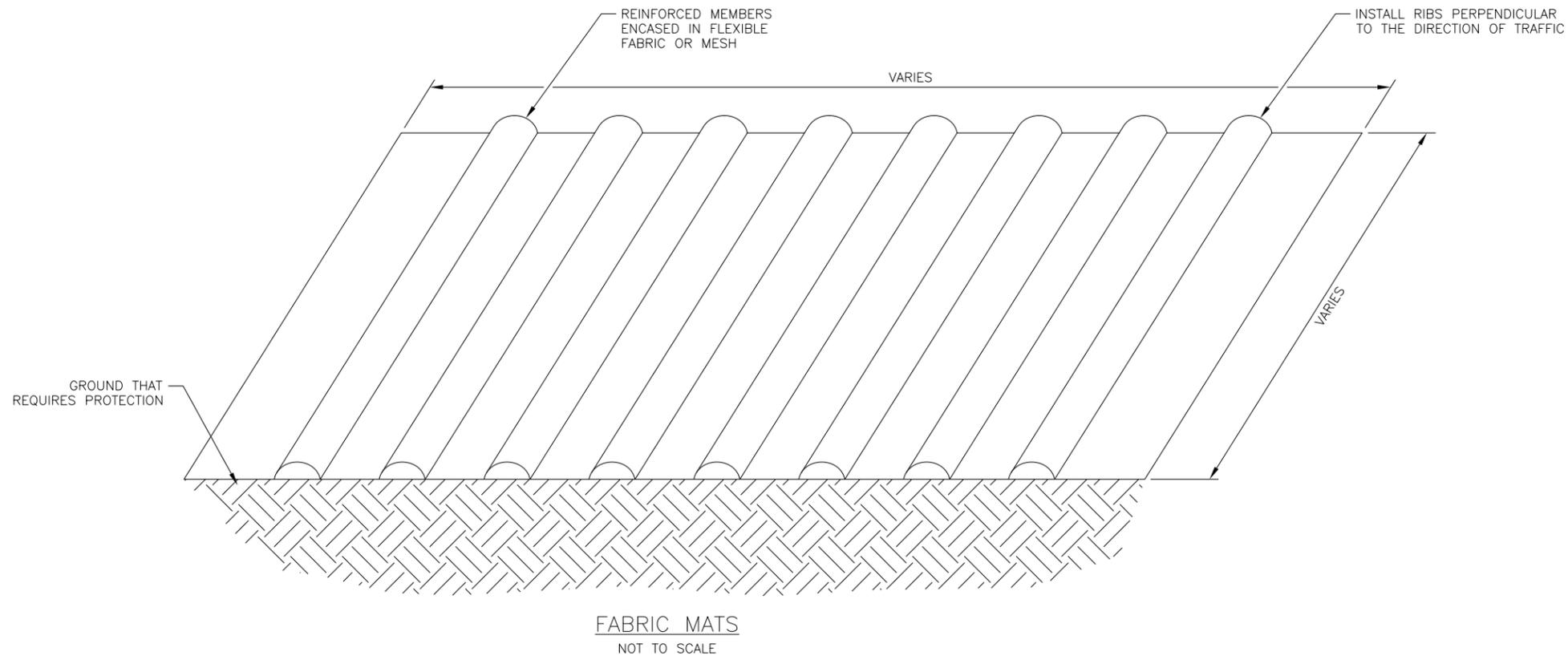
SPECIFICATIONS

Standard Specification

- 676 – Prefabricated Driving Ground Protection Mat

Drawing

- BMP-14.00 Prefabricated Driving Ground Protection Mat



PREFABRICATED DRIVING GROUND PROTECTION MAT NOTES:
MATERIALS
PREFABRICATED GROUND PROTECTION MAT

INSTALLATION

1. ENSURE THAT THE GROUND IS CLEAR OF LARGE ROCKS OR OBJECTS.
2. LAY THE MAT FLAT ONTO SURFACE.
3. INTERLOCK MULTIPLE MATS TO COVER AREAS THAT REQUIRE PROTECTION.
4. CONNECT THE MATS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

INSPECTION

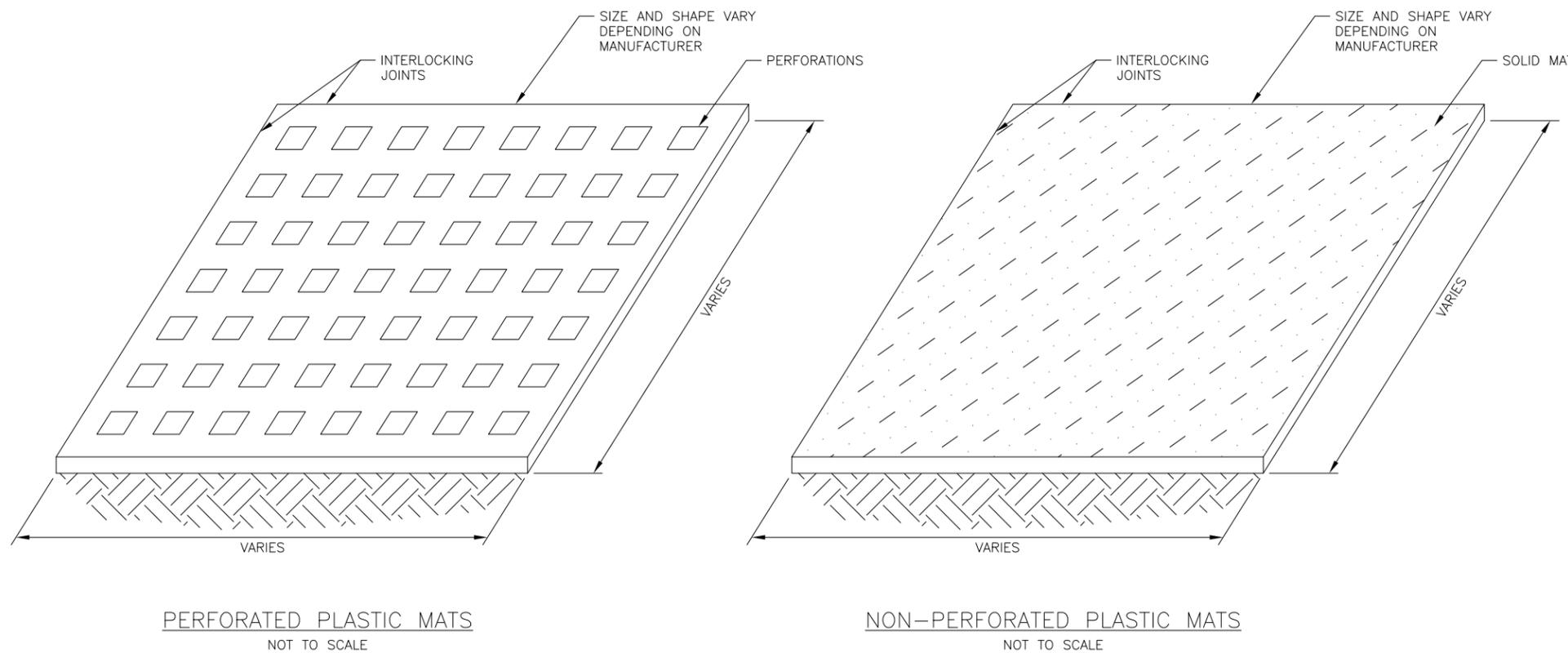
1. LOOK FOR SPLIT, TORN, OR UNRAVELLING FABRIC OR BROKEN UNITS.
2. ENSURE THAT THE MATS ARE COVERING AREAS THAT REQUIRE PROTECTION.
3. ENSURE VEHICLES DO NOT DRIVE ON SURFACES OUTSIDE OF THE MATS.
4. INSPECT FOR TRACKOUT.

MAINTENANCE

1. REPLACE DAMAGED MATS.
2. REMOVE SEDIMENT THAT ACCUMULATES ON THE MATS.
3. CLEAN OR REPLACE MATS IF THERE IS EVIDENCE OF TRACKOUT.

REMOVAL

1. REMOVE AND DISPOSE OF THE ACCUMULATED SEDIMENT THEN REMOVE THE MAT.
2. AFTER REMOVAL OF THE MAT AND IF NOT IN WETLANDS, FILL DISTURBED GROUND TO BLEND WITH THE ADJACENT GROUND AND REVEGETATE AS NECESSARY.



REVISIONS		
Date	Description	By

State of Alaska DOT&PF

**PREFABRICATED DRIVING
GROUND PROTECTION MAT**

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Date **12/2015** X/XX/XX