



Patent Pending

TRAFFIC BARRIER WITH SOUNDWALL SYSTEM, MASH TL-3

Northern Infrastructure Products

SGR72a



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INTENDED USE

The proprietary Traffic Barrier with Soundwall System is a MASH TL-3 system intended for installation along roadsides where a combination traffic barrier with soundwall system is required. The system consists of 15-ft [4.562m] long precast concrete single slope traffic barriers with soundwall panels mounted above. The precast concrete traffic barrier sections are 43.3 in [1100 mm] high (of which 39.4 in [1000 mm] was projecting above the pavement) and 25.5 in [648 mm] wide at the base. Mounted on top of each precast concrete traffic barrier unit between the flanges of the set-back vertical W10x33 [W250x49] steel posts in drilled concrete footings installed at 15 ft [14.572 m] centers are stacked soundwall panels.

The crash tested installation consisted of five precast concrete traffic barriers with an overall length of 75 ft [22.9 m]. There were five rows of soundwall panels that consisted of a bottom row with a height of 2 ft [0.61 m] plus four upper rows each 3 ft [0.917 m] high, for a total soundwall height of 14 ft [4.278 m]. The total overall height of the installation measured from top of pavement was 17.3 ft [5.278 m].

Other than some scuffing on the traffic face of the precast concrete traffic barrier at the impact site, there was no observed damage to the traffic barrier or soundwall panels from MASH crash tests 3-10 or 3-11. Depth and diameter of drilled concrete footings for roadside installations will have to be designed for each site to address local soil conditions and code requirements.

APPROVALS

The proprietary Traffic Barrier with Soundwall System has been fully tested in conformance with MASH, 2016 Test Level 3 and is determined eligible for reimbursement by the FHWA.

FHWA Eligibility Letter: TBD

CONTACT INFORMATION

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