



## G. W. MEMORIAL PARKWAY MASONRY STONE-FACED BARRIER

### INTENDED USE

The **George Washington Memorial Parkway (GWMP) Masonry Stone-faced Barrier** offers an attractive option for median barriers on National Park Service and other scenic roadways. The barrier's stone configuration is designed to minimize the risk of wheels getting caught on exposed edges while seamlessly blending in with and enhancing the surrounding environment. In addition to its aesthetic appeal, this barrier has undergone rigorous analysis and crash testing to meet the requirements of MASH 2016 Test Level 3 (TL-3) for longitudinal barriers, as was demonstrated in FHWA Federal Outdoor Impact Laboratory (FOIL) Tests 22003 and 22005. This barrier not only provides a visually pleasing solution but also delivers the necessary strength and safety to protect vehicles in the event of a collision

### MATERIALS and CONSTRUCTION NOTES

See Sheet 3 of 3.

### ELIGIBILITY

Federal Highway Administration (FHWA) Eligibility has not been pursued.

### REFERENCES

<Project Report citation>

### CONTACT INFORMATION

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## MATERIALS and CONSTRUCTION NOTES

1. Mortar – ASTM C91 Type S or equivalent,  $F'_c = 2100$  psi [14.5 MPa] @ 28 days (min).
2. Concrete Strength –  $F'_c = 4500$  psi [31.0 MPa] @ 28 days (min).
3. Reinforcing Steel – ASTM A615,  $f_y = 60$  ksi [414 MPa] (min).
4. Staggered, Class-A tension splices allowed for splicing of horizontal bars.
5. Depth of base may be less than 6" [152mm] where the foundation is on rock fill or solid rock.
6. Masonry Wall shall conform to Section 620 of FHWA FL's "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects" (FP-14).
7. Stones in front and rear wall faces should be as large as possible, similar to representation in Elevation View, with smaller size filler stones as needed.
8. Stones should extrude no more than 3" [76mm] from mortar outer face.
9. A recess of approximately 0.5" [13mm] should be used between mortar outer face and edge of stones.
10. Mortar width in-between stones should be kept as small as possible with an average width of 0.75" [19mm] and no more than 2" [51mm].
11. Drawings not to scale. All dimensions are in inches ("") and [millimeters].

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