

Plastic Project: Ridley Creek State Park





## NVI Advanced Materials Group

- NVI supplied the plastic additive for this Project.

## NewRoad® Hybrid Asphalt High Performance Additives

AMG uses recycled plastic polymers and re-engineers them through several processes to achieve the required performance.



## Procedure

9.5 mm Hybrid Polymer Asphalt Wearing Course, PG 64-22
Mix Design and Certified Weight Slips. This mix design shall be
consistent with item (d) including asphalt content,. except the
mix includes 1 − 2 % of Hybrid polymer additives by total
binder weight (including RAP). This range is equivalent to 0.05
- 0.10 percent by weight of aggregate, or approximately 1 − 2
lbs. per ton of mix



## Volumetric Mix Testing

Mix Test Data				
Without Plastic	With Plastic			
	10/20/2021	10/22/2021	10/20/2021	10/22/2021
#8	33	34	33	35
# 200	5.8	5.9	5.8	6
Gmm	2.553	2.556	2.551	2.555
Voids	3.5	4.2	3.4	4
VMA	16.1	16.4	16	16.4













Compaction

• There was no noticeable difference in compaction during paving or roller operations.



Field Density	
without plastic	with plastic
96%	92.8%
94%	92.9%
96%	95.8%
94.5%	97.1%
94.6%	95.1%



