Marshall Worksheet

4/30/2003

S.P. _____ T.H. _____ Contractor _____

Test # _____ Date Sampled _____ Mix Designation _____

MDR # _____ Sample Ton Number _____

Maximum Specific Gravity (G_{mm})

..... AASHTO T209 Mn/DOT Modified (Mn/DOT Lab Manual Method 1807)

	Container ID	
A) Weight of sample & container with screen in air, g		Record to the nearest 0.1g
B) Weight of container with screen in air, g		
C) Sample weight in air (A - B), g		
D) Weight of sample & container with screen in H_2O, g		
E) Weight of container with screen in H_2O		
F) Weight of sample in H_2O (D - E), g		
G) Volume of sample (C - F)		
G_{mm} = Max. Specific Gravity, (C/G)		**(1)** Record to the nearest 0.001

Bulk Specific Gravity (G_{mb}).. AASHTO T166 Mn/DOT Modified (Mn/DOT Lab Manual Method 1806)

Specimen ID				
Height, mm (inch)				
a) Weight in air, g				Record to the nearest 0.1g
b) Weight in water, g				
c) Weight SSD, g				
d) Volume (c - b)				
e) G_{mb} (a/d)				Record to the nearest 0.001
f) Ave. of 3 Marshall **G_{mb} =**				**(2)**
g) Diff. from Ave. G_{mb} (e - f)				

If any g > 0.020, recalculate Ave. Gmb using two specimens and redo g.
If any of the two g > 0.020, redo the three pucks again.

Air Voids - Individual & Isolated (calculation)

..... AASHTO T269 Mn/DOT Modified (Mn/DOT Lab Manual Method 1808)

A) G_{mm} = **(1)**		Record to the nearest 0.001
B) G_{mb} = **(2)**		
Isolated Air Voids (((A - B)/A)*100), %		Record to the nearest 0.1%

Technician _____ Date Tested _____