

Thomas Foley Commissioner Safety & Site Support Division Office of Quality Assurance

Alla Ayzenshtat Deputy Commissioner Safety & Site Support

Concrete and Asphalt Generic Mix Design Approval # 2023 - 129

30-30 Thomson Avenue Long Island City, NY 11101 Date: 12/15/2023

Tel. 718 / 391-1624 www.nyc.gov/ddc To: Matthew D. Harrison,

**Green Asphalt** 

From: Juan Martinez, PE, Director

Office of Quality Assurance

**Date Submitted: 12/13/2023** 

Plant: Green Asphalt

**NYSDOT Facility Numbers:** H0385

Laboratory: MT Group - Intertek

Mix Design Type: 6FRA Top - 30% RAP

Generic Mix Design Serial Number: GreenAsphalt/6FRA/Top/Generic/NYCDDC/12/23/129

Generic Mix Design Date: 11/13/2023

Generic Mix Design Expiration Date: 12/31/2025

Comments: 1) This mix design is approved only for the NYSDOT Facility Numbers listed above.

2) Approval is valid only if facilities listed above remain on the DDC OQA Approved list of Concrete and/or Asphalt Plants.

3) Approval is limited to the material sources and aggregate sizes shown on the mix design.

4) Dosage of admixtures may be adjusted by the plant within manufacturer's written guidelines, but admixtures not listed may not be added.

Wade habout

Reviewed & Prepared by: Scott Cruz, QA Inspector

Recommended for Acceptance by: Nader Shehata, PE, Deputy Director



ASPHALT JOB MIX FORMULA SHEET - 6F RA TOP MIX

 PLANT NAME:
 Green Asphalt
 Mil.

 NYSDOT FACILITY #:
 H0385
 PRI

 PLANT ADDRESS:
 37-98 Railroad Ave
 CO

, NY 11101

MIX DESIGN DATE 11/13/2013

PREPARED BY: Alex Cantos

COMPANY MT Group

PLANT QC MGR: Matthew Harrison

ltem	Supp	er / Qu	arry	NYSDOT Source	Friction Agg.	Agg Blend %	Mix %	Lbs / Ton
							0.0%	0
					Marie and a second		0.0%	0
#8 Stone	R	J. Valent	e	1 48R	Yes	40.0%	38.5%	770
							0.0%	0
Natural Sand	North Ame	erican A	gregates	10-105F2	N/A	30.0%	28.9%	578
					N/A		0.0%	0
5/16" RAP	Gre	en Asph	alt	N/A	Yes	10.0%	9.6%	193
	RAP % As	phalt:	4.0%		RAI	PAC	0.4%	8
All LAP to be from Mun	It plat saler ter		DATE OF THE	tles	RAP Ag	gregate	9.2%	185
Fine RAP	Gre	en Asph	alt	N/A	Yes	20.0%	19.3%	385
	RAP % As	phalt:	6.1%		RAI	PAC	1.2%	24
All BAR to be from Mun		Tale for	TENHALE.	ries.	RAP Ag	gregate	18.1%	361
Virgin Asphalt	Grade:	PG	64 22	SG (Gb):	1 031		3.7%	74
Total Asphalt Conte	ent (P <sub>b</sub> )						5.3%	106
	The second secon	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN		ASSETT SECTION ASSESSMENT PROPERTY.	The Aspectation of the Conflictor	100.0%	100.0%	2,000

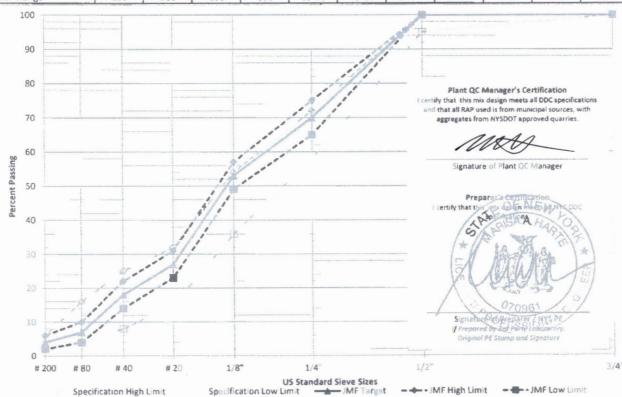
"APPROVED"

"APPROVED"

NYC DDC - Office of Quality Assurance
Date: 12/12/23 Reviewed By: S.C.
OG No: 2023-129

# GreenAsphalt/6FRA/Top/Generic/NYCDDC/12/23/129 Expiration: 12/31/2025

P # 200 Sieve Size 1-1/2 3/4" 1/2" 1/4" # 20 # 40 # 80 58-72 15-32 8 25 2-6 5.0-6.2 Specification Limits 100 95-100 36-54 4 16 100 100 JMF Target 53 27 18 4 5.3 70 7 100 100 100 100 JMF Range 100 65-75 49-57 14-22 4-10 5.0.6.0





ASPHALT COMBINED GRADATION WORKSHEET - 6F RA TOP MIX

PLANT NAME Green Asphalt NYSDOT FAC LITY # H0385 M X DESIGN DATE 11/13/2023

#### **Average Bin Gradations**

	Nat	Used	Nat	Used	#8 \$	tone	Not	Used	Natur	al Sand	Not	Used	5/16	RAP	Fin	e RAP
Sieve	% Ret	% Pass	% Ret	% Pass	% Ret.	% Pass	% Ret	% Pass	% Ret.	% Pass	% Ret	% Pass	% Ret	% Pass	% Ret.	% Pass
1.5"		100.0		100.0	0.0	100.0		100.0	0.0	100.0	-	100.0	2.0	100.0	0.0	100.0
1"		100.0		100.0	0.0	100.0		100.0	0.0	100.0		100.0	. 0	100 0	0.0	100.0
3/4"		100.0		100.0	0.0	100.0		100.0	0.0	100.0		100.0	0	100 0	0.0	100.0
1/2"		100.0		100.0	0.0	100.0		100.0	0.0	100.0		100.0	4.0	100.0	0.0	100.0
1/4"		100.0		100.0	57 1	429		100.0	0.0	100.0		100.0	t.3.4	35.6	5.6	94 4
1/8"		100.0		100.0	26.2	16.7		100.0	4.9	95.1		100.0	18.6	18.0	15.7	78.7
#20		100.0		100.0	15.9	0.8		100.0	35 1	60.0		100.0	9.7	83	37.4	413
#40		100.0		100.0	0.0	0.8		100.0	25 5	34.5		100.0	0.0	8.3	8.8	32.5
#80		100.0		100.0	0.0	0.8		100.0	29.4	5.1		100.0	0.0	83	13.4	19.1
#200		100.0		100.0	0.0	0.8		100.0	2.3	2.8		100.0	0.0	8.3	9.9	9.2
Pan					8.0			5.00	2.8			100000	8.3		9.2	-
Totals	0.0	199	0.0	145/0.15025	100.0		0.0	610000	100.3	Part of the	0.0		100.0	30,000	100.0	

Stockpiles Sampled By: Alex Cantos Date Sampled Gradation Technician Izak Aranov Date Tested

## Coarse Aggregate Specific Gravity per ASTM C127

Discard portion of sample that passes the 1/4 sieve

Only Perform this test if aggregate is 10% or more coarse (less than 90% passing the 1/4 sieve)

	Not Used	Not Used	#8 Stone	Not Used	Natural Sand	Not Jised	5/16 RAP	Fine RAP
% Coarse Agg.			57.1%		0.0%		63.4%	5 6%
Test Required?	NO	NO	YES	NO	NO	NO	YES	NO
A) Wt. in Air			3223 7				3236.4	MANAGEMENT CONTRACTOR OF THE PARTY OF THE PA
B) Wt. SSD			3239.5				3247.6	
C) Wt. in Water			2041 0				2063.7	
G <sub>sb</sub> (A/(B-C)			2.690			3.4	2.734	
G,, (A/(A-C)	***		2.726	- 2			2 760	

#### Fine Aggregate Specific Gravity per ASTM C128

Discard portion of sample that does not pass the #4 sieve.

Only Perform this test if 10% or more passes the 1/4" Sieve.

	Not Used	Not Used	#8 Stone	Not Used	Natural Sand	Not Used	5/16" RAP	Fine RAP
% Fine Agg.			42.9%		100.0%		36.6%	94.4%
Test Required?	NO	NO	YES	NO	YES	NO	YES	YES
A) Wt. in Air			499.1		498.4		499.6	502.5
B) Wt. Flask + Water			1451.6		1451 6		1451.6	1451.6
) Wt. Flask + Water + Sample			1767 1		1764 5		<b>1</b> 769.4	1770.7
Wt. SSD			501.7		501 3		5019	504 1
3 <sub>sb</sub> (A/(B+S-C)			2.680		2.645		2.714	2 716
G., (A/(B+A-C)			2.718		2.687		2 748	2 740

#### Combined Aggregate Specific Gravity

	Not Used	Not Used	#8 Stone	Not Used	Natural Sand	Not Used	5/16 RAP	F ne RAP
Combined G			2.686	***	2.645	-	2 726	2 716
Combined to a			2.723	***	2.687		2 755	2 740

Date Tested. S. G. Technician: nfex Cantos 11

## Combined Average Gradations, % Passing

		Compu	nea Av	erage C	iradatic	70 P	assing				
Bin	Agg Blend	15	1"	3/4"	1/2"	1/4"	1/8"	#20	#40	#80	#200
Not used	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Not rised	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
#8 Stone	40.0%	40.0	40.0	40.0	40.0	17.2	6.7	0.3	0.3	03	0.3
Not Used	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natura Sand	30.0%	30.0	30.0	30.0	30.0	30.0	28.5	18.0	10.4	15	0.8
Not Used	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/15 RAP	10.0%	10.0	10.0	10.0	10.0	3.7	1.8	0.8	0.8	0.8	0.8
Fine RAP	20.0%	20.0	20.0	20.0	20.0	18.9	15.7	8.3	6.5	3.8	18
Tota	100.0%	100.0	100.0	100.0	100.0	69.7	52.8	27.4	18.0	6.5	3.8
Specification limits	out the same of th	1.00	100	100	95-100	58-72	36-54	15-32	8-25	4-16	2.6

2 24 6 Rev 3/2015



ASPHALT TRIAL GRADATION WORKSHEET - 6F RA TOP MIX

Not Used	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Asph.   15
Batch Crams:   125   Batch Grams:   125   Batch G	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Asph.   15
Not Used	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Grams   15
Not Used	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
#8 Stone	0.0 0.0 3.8 0 0.0 0.0 0.0 5.3 8.2 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.3 1 4.1 25.2 7.9 2 0.4 33.4 27.1 12 0 4200 Pan 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Second   S
Natural Sand   30.0%   28.7%   35.8   0.0   0.0   0.0   0.0   0.0   17.5   125.7   91.3   105.3	5.3 8.2 10.0 3 0.0 0.0 0.0 0.0 0.0 0.0 5.3 4 1 25.2 7.9 2 1 33.4 27.1 22 0 4200 Pan 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1
Not Used	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
S/16" RAP	0.0 0.0 5.3 1.1 22 25.2 7.9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 5.0 0.0 0.0 0.0 0.0 0.0 78.8 231 12.1 0.0 0.0 0.0 5.3 1243 3 15.5 0.0 0.0 0.0 0.0 0.0 14.2 39.9 95.1 22.4 34.1 25.2 7.9 2543 8 35.8 0 55.3 0.0 0.0 0.0 0.0 0.0 365.7 205.7 308.8 113.7 139.4 33.4 27.1 12500   Batch Weights, Retained on Sieve - Grams   Batch Weights, Retained on Sieve - Grams   Batch Weights, Retained on Sieve - Grams   Asph. 1.5 1 3/4 1/2" 1/4 1/8" #20 #40 #80 #200 Pan  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Fine RAP	4.1 25.2 7.9 2  9.4 33.4 27.1 22  0 4200 Pan  0.0 0.0 0.0 0.0  0.0 0.0 0.0 0.0  0.0 0.0	3 15.5 0.0 0.0 0.0 0.0 14.2 39 95.1 22.4 34.1 25.2 7.9 2543 35.8 0 56.3 0.0 0.0 0.0 0.0 365.7 205 7 308.8 113.7 139.4 33.4 27.1 12500  **Batch Weights, Retained on Sieve - Grams**  **Batch Weights, Retained on Sieve - Grams**  **Asph.**   Grams
Batch Pb   5   Batch Pb   5   Batch Grams   125   Batch Weights, Retained on Sleve - Grams   125   125   Batch Weights, Retained on Sleve - Grams   125	9.4 33.4 27.1 22  0	8 35.8 0 0 0.0 0.0 0.0 0.0 365.7 205.7 308.8 113.7 139.4 33.4 27.1 1250.0 4.50%  Batch Weights, Retained on Sieve - Grams    Asph.   Grams   1.5
Batch Pb   S.   Batch Pb   S.   Batch Grams:   125   Batch Weights, Retained on Sleve - Grams   1.5   1   3/4   1/2   1/4   1/8   R20   R40   R80	90 #200 Pan  0.0 0.0 0.0  0.0 0.0 0.0  0.0 0.0 3.8  0.0 0.0 0.0  4.7 8.2 10.0  0.0 0.0 0.0  0.0 0.0 5.3  3.9 25.0 7.8  8.6 33.2 26.9  12	## Batch Weights, Retained on Sleve - Grams    Asph.   1.5   1   3/4   1/2"   1/4   1/8"   #20   #40   #80   #200   Pan
Batch Pb   S   Batch Grams   125   Batch Weights, Retained on Sieve - Grams	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Asph.   1.5   1   3/4   1/2"   1/4   1/8"   M20   M40   M80   M200   Pan
Batch Grams:   125   Batch Weights, Retained on Sleve - Grams	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Asph. Grams 1.5 1 3/4 1/2" 1/4 1/8" #20 #40 #80 #200 Pan 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Bin   Agg.   Mix   Blend   Grams   Asph.   Grams   Asph.   Grams   Asph.   Asph.   Blend   Blend   Grams   Asph.   Blend   Grams   Asph.   Blend   Blend   Grams   Asph.   Blend   Blend   Grams   Blend   Blend   Blend   Blend   Blend   B	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Asph. Grams 1.5 1 3/4 1/2" 1/4 1/8" #20 #40 #80 #200 Pan 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Blend   Blend   Blend   Grams   Grams   1.5   1   3/4   1/2"   1/4   1/8'   #20   #40   #80	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Section   1.5   1   3/4   1/2"   1/4   1/8"   #20   #40   #80   #200   Pan
Not Used	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Not Used	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Not Used	0.0 0.0 0.0 4.7 8.2 10.0 3 0.0 0.0 0.0 0.0 0.0 0.0 5.3 1 3.9 25.0 7.8 2 8.6 33.2 26.9 12 0.0 8200 Pan 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0
Natural Sand   30.0%   28.5%   356.3   0.0   0.0   0.0   0.0   0.0   17.5   125.0   90.8   104.7	4.7 8.2 10.0 3 0.0 0.0 0.0 0.0 0.0 0.0 5.3 3 3.9 25.0 7.8 2 8.6 33.2 26.9 12	3
Not Used	0.0 0.0 0.0 0.0 0.0 5.3 3.9 25.0 7.8 8.6 33.2 26.9 12 3 #200 Pan 0.0 0.0 0.0 0.0 0.0	0
S/16" RAP	0.0 0.0 5.3 3.9 25.0 7.8 2 2 6.9 12 2 6	7 4.9 0.0 0.0 0.0 0.0 78.4 23.0 12.0 0.0 0.0 0.0 5.3 1227 9 15.4 0.0 0.0 0.0 0.0 14.2 39 7 94.6 22.3 33.9 25.0 7.8 2525 1 42.1
Fine RAP    20.0%   20.2%   25.2 9   15.4   0.0   0.0   0.0   0.0   14.2   39.7   94.6   22.3   33.9	3.9 25.0 7.8 2 8.6 33.2 26.9 12 0 8200 Pan 0.0 0.0 0.0 0.0 0.0 0.0	9 15.4 0.0 0.0 0.0 0.0 14.2 39 7 94.6 22.3 33.9 25.0 7.8 2525 1 42.1 0 62.5 0.0 0.0 0.0 0.0 363.8 204.6 307.2 113.1 138.6 33.2 26.9 1250 6 5.00%  Batch Weights, Retained on Sieve - Grams  Asph. 15 1 3/4 1/2 1/4 1/8' #20 #40 #80 #200 Pan 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Batch Park   100.0%   100.0%   1250.0   62.5   0.0   0.0   0.0   0.0   363.8   204.6   307.2   113.1   138.6	0.0 9.0 Pan 0.0 0.0 0.0 0.0 0.0 0.0	0 62.5 0.0 0.0 0.0 0.0 363.8 204.6 307.2 113.1 138.6 33.2 26.9 1250.0 5.00%  Batch Weights, Retained on Sieve - Grams  Asph. Grams 1 5 1 3/4 1/2 1/4 1/8 #20 #40 #80 #200 Pan 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Batch Pb   S.   Batch Grams: 125     Batch Weights, Retained on Sieve - Grams   Several Part	0.0 9.0 Pan 0.0 0.0 0.0 0.0 0.0 0.0	8atch Weights, Retained on Sieve - Grams  Asph. 15 1 3/4 1/2 1/4 1/8' #20 #40 #80 #200 Pan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Batch P <sub>b</sub> 5.           Bin         Agg. Blend Blend Blend Grams         125         Batch Weights, Retained on Sleve - Grams           Not Used         0.0% 0.0% 0.0% 0.0         0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0	Asph.   1.5   1   3/4   1/2   1/4   1/8'   #20   #40   #80   #200   Pan
Batch Grams:   125     Batch Weights, Retained on Sleve - Grams	0.0 0.0 0.0	Asph. 15 1 3/4 1/2 1/4 1/8 #20 #40 #80 #200 Pan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Bin         Agg. Blend Blend Blend Grams         Mix Blend Grams         1.5         1         3/4         1/2         1/4         1/8'         M20         M40         M80           Not Used         0.0%         0.0%         0.0	0.0 0.0 0.0	Asph. 15 1 3/4 1/2 1/4 1/8 #20 #40 #80 #200 Pan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Not Used   0.0%   0.0%   0.0	0.0 0.0 0.0	s Grams 15 1 3/4 1/2 1/4 1/8 #20 #40 #80 #200 Pan 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
Not Used         0.0%         0.0%         0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
#8 Stone 40.0% 37 8% 472.5 0.0 0.0 0.0 0.0 269.8 123 8 75.1 0.0 0.0 0.0 Not Used 0.0% 0.0% 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		
Not Used         0.0%         0.0%         0.0	1.0 0.0 3.8 4	
Natural Sand         30.0%         28.4%         354.4         9.0         0.0         0.0         0.0         0.0         17.4         124.4         90.4         104.2           Not Used         0.0%         0.0%         0.0         0.		
Not Used 0.0% 0.0% 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
5/16 RAP 10.0% 9.8% 123.0 4.9 0.0 0.0 0.0 78.0 22.9 11.9 0.0 0.0		
	0.0 0.0 5.3	4 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104.2 8.2 9.9 354.4
Fine RAP 20.0% 20.1% 251.6 15.3 0.0 0.0 0.0 1.4 1 39 5 94.1 22.1 33.7	3.7 24.9 7.8	4 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
	10.000	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 4 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
	79 35.1 26.8 12	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 4 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
		4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
BA CF 4		4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 4 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Agg Mix Batch Asph	1 1122	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Blend Blend Grams Grams 1 5 1 5/4 1/2 1/4 1/8 820 840 860	1 4 MOUNT   No	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Not Used 0.0% 0.0% 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 6 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
	0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Not Used 0.0% 0.0% 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Natura Sand 30.0% 28.2% 352.5 0.0 0.0 0.0 0.0 17.3 123.7 89.9 103.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.8	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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Virgin Asphalt 4.4% 54.8 54.8 54.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.8 0.0 0.0 0.0 3.6 8.1 9.9 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
The second secon	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.8 0.0 0.0 0.0 3.6 8.1 9.9 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 4 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Total Mix 100.0% 100.0% 1250.0 75.0 0.0 0.0 0.0 360.0 202.5 303.9 111.9 137.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.8 104 2 8.2 9.9 354 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
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BATCH 5  Batch Po Batch Grams 250.0  Batch Weights, Retained on Sieve - Grams	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
BATCH 5 Batch P <sub>5</sub> Batch Grams 250.0 Batch Weights, Retained on Sieve - Grams  Bin Agg Mix Batch Asph 1.5° 1 3/4° 1/2° 1/4° 1/8° #20 #40 #80	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.8 104 2 8.2 9.9 354 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
Batch P <sub>3</sub>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104.2 8.2 9.9 354. 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Batch P <sub>3</sub>   Second   Batch P <sub>3</sub>   Second   Batch Grams   250.0   Second   Second	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104.2 8.2 9.9 354 0 0 10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
Batch P <sub>S</sub>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104.2 8.2 9.9 354 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Batch Ps   Batch Ps   Batch Grams   250.0   Batch Weights, Retained on Sieve - Grams	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354. 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Batch P <sub>3</sub>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 354 0 0 10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
Batch P <sub>5</sub>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104.2 8.2 9.9 354. 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Batch P:   Satch Weights, Retained on Sieve - Grams   Satch Weight	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 17.4 124.4 90.4 104 2 8.2 9.9 354 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Batch P2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 1042 8.2 9.9 3544 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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Slend   Blend   Grams   Grams   Stams   Stam	0.0 0.0 0.0	g Grams 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
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Send   Blend   Grams   Grams   Send	0.0 0.0 0.0	G Grams 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Send   Blend   Grams   Grams   Send	0.0 0.0 0.0	G Grams 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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Seed   Blend   Grams   Grams   Seed	0.0 0.0 0.0	Grams 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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	7.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104.2 8.2 9.9 3 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
	The same of the sa	4 0.0 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104.2 8.2 9.9 3 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
	The same of the sa	4 0.0 0.0 0.0 0.0 0.0 17.4 124.4 90.4 104 2 8.2 9.9 3 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

6 50%



ASPHALT MAXIMUM DENSITY & MARSHALL PROPERTIES WORKSHEET - 6F RA TOP MIX

PLANT NAME: Green Asphalt NYSDOT FACILITY #: H0385 MIX DESIGN DATE: 11/13/2023 Theoretical Maximum Specific Gravity G<sub>mm</sub> per ASTM D2041 Trial Batch 4 5 Pb 4.5% 5.0% 5.5% 6.0% 6.5% A) Sample in Air (grams) 2012.3 2023.7 2028.4 2006 2014. 2007.7 2012.4 2018 B) Pycnometer in Water (Grams) 1318.8 1326.5 1318.8 1326 1318.8 1326.5 1318.8 1326 C) Sample & Pycnometer in Water (Grams) 2531.2 2542.3 2533.2 2524 2515.9 2518.9 2508.0 25.70 Gmm (A/(A+B-C)) 2.516 2.505 2.492 2.483 2.474 2.476 2.464 2.463 2.445 2.448 Average Gm 2.510 2.487 2 475 2.463 2.446 Density Technician: Alex Cantos Date Tested: Computation of Marshall Mix Properties (75 Blows per Side) Bulk SG SSO Max SG % Air Weight Weight Sample Unt Meas. Corr Corr. Marshall Marshall In Water Weight Volume In Air Gmb Gmm Pa Weight Stability Factor Stability Flow Quotient Grams Grams Grams CC % PCF lbs 0.01" lb/0.01 lbs lbs A В C D F F G H K L M N B-C A/D (F-E)/F E\*624 1\*K L/M TRIAL BATCH 1  $P_{h} = 4.5\%$ Specimen A 1240.1 1242.2 2.344 713.2 529.0 2.510 6.60% 2850 0.96 2740 8.5 322 716.3 0.96 Specimen B 1247.9 531.6 2.343 2.510 6.65% 2750 8.8 2860 313 Specimen C 1243.4 1243.4 712.5 530.9 2.342 2.510 6.69% 2790 0.96 2680 8.8 305 Average 2.343 2.510 6.65% 146.2 2720 8.7 313 TRIAL BATCH 2  $P_b = 5.0\%$ 1243.3 1244.0 717.0 2.359 2.487 Specimen A 527.0 5.14% 0.96 2840 290 2960 9.8 Specimen B 1241.5 1242.6 715.9 526.7 2.357 2.487 5.22% 3040 0.96 2920 95 307 Specimen C 1246.7 1247.8 719.4 528.4 2.359 2.487 5.13% 3020 0.96 2900 9.3 312 Average 2 359 147.2 2890 9.5 2 487 5.15% 303 **TRIAL BATCH 3**  $P_b = 5.5\%$ Specimen A 1239.4 1240.3 718.1 522.2 2.373 2.475 4 10% 3110 0.96 2990 10.5 285 Specimen B 1238.7 1239.6 717.4 522.2 2.372 2.475 4 16% 0.96 3080 11.0 280 Specimen C 717.5 521 9 2.373 2 475 4 13% 3010 3010 10.6 284 1238.4 1239.4 1 Average 2.373 2 475 4.12% 148 1 3030 10.7 283 **TRIAL BATCH 4**  $P_{\rm b} = 6.0\%$ Specimen A 1237.8 1238.6 719.9 518.7 2.386 2.463 3.11% 3260 1 3260 119 274 719.6 519.2 2.385 2.463 3.18% 3380 3380 Specimen B 1238.8 1 11.4 296 Specimen C 1236.4 518.0 2.387 2.463 3.09% 3240 3240 11. 292 Average 2.386 2.463 3.13% 148.9 3290 11.5 287 TRIAL BATCH 5  $P_b = 6.5\%$ 2.19% Specimen A 1236.4 1237.2 720.4 2.392 2.446 3050 263 516.8 11.6 1 Specimen B 1239.0 722.4 516.6 2.397 2.446 2.02% 3160 3160 277 1 Specimen C 1237.9 1238.9 722.8 516.1 2.399 2.446 1.94% 3170 1 3170 269 2.04% 270 Average 2.396 2.446 149.5 3130 11.6

Date Tested:

Marshall Technician

Alex Cantos



MIX VOLUMETRIC PROPERTIES WORKSHEET - 6F RA TOP MIX

PLANT: Green Asphalt NYSDOT FACILITY #: H0385 MIX DESIGN DATE: 11/13/2023

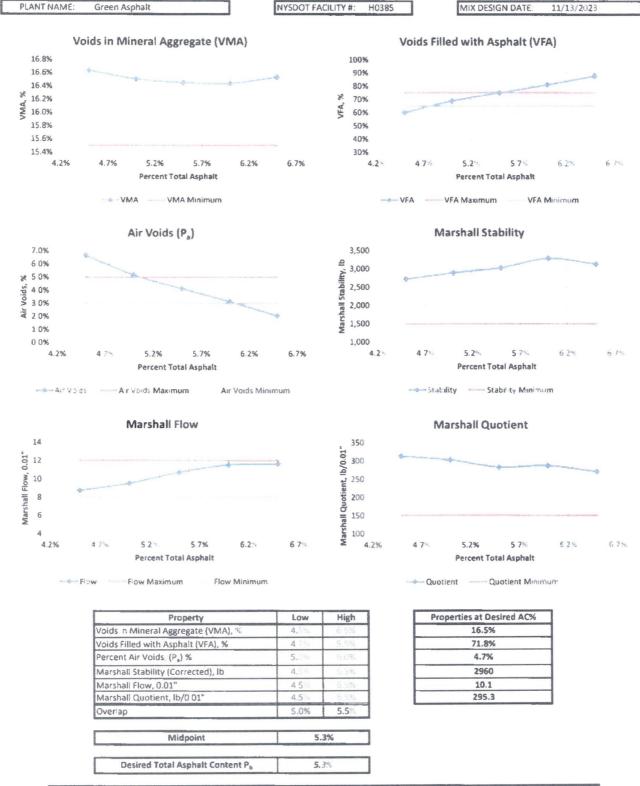
Agg.		NYSDOT			Tot	al Mix Co	ompositio	on by We	ight
Blend %	37-98 Railroad Ave	Source	Gsa	G <sub>sb</sub>			Trial Batch	)	
		300100			1	2	3	4	5
0.0%	Not Used				0.0%	0.0%	0.0%	0.0%	0.0%
0.0%	Not Used	the set to			0.0%	0.0%	0.0%	0.0%	0.0%
40.0%	#8 Stone	1-48R	2.723	2.686	38.2%	38.0%	37.8%	37.6%	37.4%
0.0%	Not Used			No. of the	0.0%	0.0%	0.0%	0.0%	0.0%
30.0%	Natural Sand	10-105F2	2.687	2.645	28.7%	28.5%	28.4%	28.2%	28.1%
0.0%	Not Used				0.0%	0.0%	0.0%	0.0%	0.0%
10.0%	5/16" RAP		2.755	2.726	9.9%	9.9%	9.8%	9.8%	9.7%
20.0%	Fine RAP		2.740	2.716	20.3%	20.2%	20.1%	20.0%	19.9%
	Virgin Asphalt		1000	Haraketti F	2.9%	3.4%	3.9%	4.4%	4.9%
100.0%					100.0%	100.0%	100.0%	100.0%	100.0%

	Mix General Properties				Trial Batch		
	wiix General Properties		1	2	3	4	5
Pb	Percent Total Asphalt Binder, %		4.5%	5.0%	5.5%	6.0%	6.5%
P <sub>ba</sub>	Percent Absorbed Asphalt Binder, %	250	0.11%	0.04%	0.16%	0.27%	0.28%
Pbe	Percent Effective Asphalt Binder, %		4.39%	4.96%	5.35%	5.75%	6.23%
DP	Dust Proportion (0.6 - 1.2 desired)		1.2	1.3	1.4	1.5	1.6
G <sub>mm</sub>	Mix Maximum Specific Gravity		2.510	2.487	2.475	2.463	2.446
G <sub>mb</sub>	Mix Bulk Specific Gravity	The Market Control	2.343	2.359	2.373	2.386	2.396
G <sub>sb</sub>	Aggregate Bulk Gravity		2.684	2.684	2.684	2.684	2.684
Gse	Aggregate Effective Gravity		2.692	2.687	2.695	2.703	2.704
Gsa	Aggregate Apparent Specific Gravity		2.718	2.718	2.718	2.718	2.718

	Air Assentance Brancutics	Low	High	T				Tri	al Batch				
IV	lix Acceptance Properties	Limit	Limit		1		2		3		4		5
VMA	Voids in Mineral Aggregate, %	15.5%		d	16.6%	4	16.5%	V	16.4%	V	16.4%	V	16.5%
AIAIM	Note: All five	trial batches	must meet	the	minimun	1 VN	1A requir	eme	nt.				
VFA	Voids Filled with Asphalt, %	65%	75%	×	60.0%	We are	68.8%	4	75.0%	×	81.0%	×	87.7%
Pa	Percent Air Voids, %	3.0%	5.0%	×	6.7%	×	5.2%	Charles .	4.1%	Spile	3.1%	×	2.0%
= = 0	Marshall Stability (Corrected), lb	1500		V	2720	W.	2890	and the	3030	Sept.	3290	4	3130
	Marshall Flow, 0.01"	8	12	4	8.7	Ogen	9.5	100	10.7	V	11.5	V	11.6
~~~	Marshall Quotient, lb/0.01"	150		1	313	Vª	303	4	283	No.	287	40	270



PROPERTY CURVES & DESIRED ASPHALT CONTENT WORKSHEET - 6F RA TOP MIX



Desired Asphalt Content is the midpoint, unless the midpoint is on the VMA curve's positive slope. If this is the case, the Desired Asphalt Content is as close as possible to the bottom of the VMA curve, within the Overlap Range.