

**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 - 131

30-30 Thomson Avenue Long Island City, NY 11101

Date: 12/15/2023

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

**Green Asphalt** 

From:

Juan Martinez, PE, Director

Office of Quality Assurance

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

To:

Plant: Green Asphalt

**NYSDOT Facility Numbers:** H0385

Laboratory: N/A

Mix Design Type: 6FRA Top 100% RAP

Generic Mix Design Serial Number: GreenAsphalt/6FRA/Top/Generic/NYCDDC/12/23/131

Generic Mix Design Date: 9/19/2023

Generic Mix Design Expiration Date: 12/31/2025

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

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.

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

Vader shotot

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 Co LLC

NYSDOT FACILITY #: H0385

PLANT ADDRESS: 37-98 Railroad Avenue

Long Island City, NY 11101

MIX DESIGN DATE: 9/19/2023

PREPARED BY: Matt Harrison

COMPANY: Green Asphalt Co LLC

PLANT QC MGR: Matt Harrison

Item	Sun	plier / Qua	arry	NYSDOT	High	Agg.	Mix %	Lbs / Ton
item	Jup	plier / Qui	arry	Source	Friction	Blend %	IVIIX /0	LDS / TOTT
							0.0%	0
							0.0%	0
							0.0%	0
							0.0%	0
					N/A		0.0%	0
					N/A		0.0%	0
Rap 6F Stone (-5/8)	N	YC DOT/DE	OC .	N/A	Yes	64.4%	64.1%	1,282
	RAP % A	sphalt:	4.1%		RAI	PAC	2.6%	52
All RAP to be from Municip	al Sources - Agg	gregates fro	m State Quar	ries	RAP Ag	gregate	61.5%	1,230
RAP Sand	N	C DOT/DI	OC .	N/A	Yes	35.6%	35.4%	708
	RAP % A	sphalt:	6.4%		RAI	PAC	2.3%	46
All RAP to be from Municip	al Sources - Age	gregates fro	m Stote Quar	ries	RAP Ag	gregate	33.1%	662
Rejuvenating Oil	Grade:	Valero	VP 165	SG (G <sub>b</sub> ):	0.93		0.5%	10
Total Asphalt Content	(P <sub>b</sub> ):						5.4%	108
						100.0%	100.0%	2 000

Project No: Generic

"APPROVED"

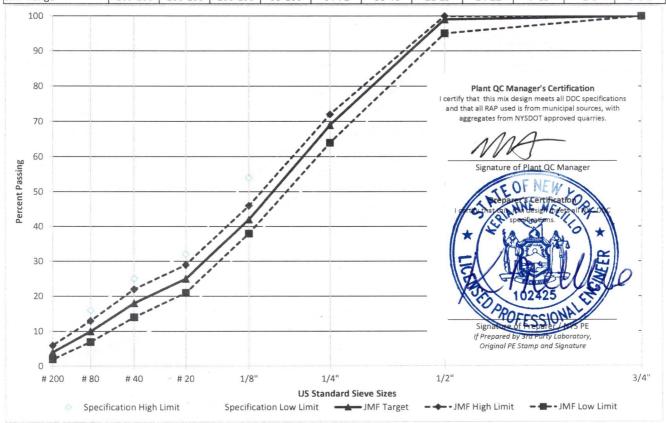
NYC DDC-Office of Quality Assurance
Date: 12/12/23 Reviewed By: S.C. GABGS APPROVAL STAMP

LOG No: 2023-131

# GreenAsphalt/6FRA/Top/Generic/NYCDDC/12/23/131 Expiration: 12/31/2025

QA&CS SERIAL NUMBER & EXPIRATION DATI

Sieve Size	1-1/2"	1"	3/4"	1/2"	1/4"	1/8"	# 20	# 40	# 80	# 200	P <sub>b</sub>
Specification Limits	100-100	100-100	100-100	95-100	58-72	36-54	15-32	8-25	4-16	2-6	5-6.2
JMF Target	100	100	100	99	69	42	25	18	10	4	5.4
JMF Range	100-100	100-100	100-100	95-100	64-72	38-46	21-29	14-22	7-13	2-6	5-6.1





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

PLANT NAME: Green Asphalt Co LLC NYSDOT FACILITY #: H0385 MIX DESIGN DATE: 9/19/2023

## Theoretical Maximum Specific Gravity G<sub>mm</sub> per ASTM D2041

Trial Batch		1		2	:	3	4	4		5
P <sub>b</sub>	5.	3%	5.4	4%	5.	5%	5.0	6%	5.	7%
A) Sample in Air (grams)	1819.2	1836.7	1845.6	1817.9	1812.7	1824.1	1831.3	1828.9	1855.5	1801.5
B) Pycnometer in Water (Grams)	7705.3	7474.2	7705.3	7474.2	7705.3	7474.2	7705.3	7474.2	7705.3	7474.2
C) Sample & Pycnometer in Water (Grams)	8820.2	8600.2	8832.6	8585.0	8811.1	8588.4	8818.6	8586.7	8830.7	8564.5
G <sub>mm</sub> (A/(A+B-C))	2.583	2.584	2.569	2.571	2.564	2.570	2.551	2.553	2.541	2.533
Average G <sub>mm</sub>	2.5	584	2.5	570	2.5	67	2.5	552	2.5	537

Density Technician: Matt Harrison Date Tested: 9/13/2023

## Computation of Marshall Mix Properties (75 Blows per Side)

Weight In Air	SSD Weight	Weight In Water	Sample Volume	Bulk SG G <sub>mb</sub>	Max SG G <sub>mm</sub>	% Air P <sub>a</sub>	Unit Weight	Meas. Stability	Corr. Factor	Corr. Stability	Marshall Flow	Marshall Quotient
Grams	Grams	Grams	CC			%	PCF	lbs	lbs	lbs	0.01"	lb/0.01"
Α	В	С	D	Ε	F	G	Н	J	K	L	М	N
			B-C	A/D		(F-E)/F	E*62.4			J*K		L/M

TRIAL BATO	CH 1		P <sub>b</sub> =	5.3%							garage.		
Specimen A	1252.8	1257.4	749.1	508.3	2.465	2.584	4.6%		2850	1.04	2960	10.5	282
Specimen B	1253.1	1257.7	749.5	508.2	2.466	2.584	4.6%		2700	1.04	2810	10.7	263
Specimen C	1251.5	1256.5	748.8	507.7	2.465	2.584	4.6%		2925	1.04	3040	10.4	292
Average					2.465	2.584	4.6%	153.8			2940	10.5	279

TRIAL BATO	CH 2		P <sub>b</sub> =	5.4%		114							
Specimen A	1252.2	1257.9	748.7	509.2	2.459	2.570	4.3%		2441	1	2440	10.0	244
Specimen B	1253.5	1259.7	749.3	510.4	2.456	2.570	4.4%		2290	1	2290	9.5	241
Specimen C	1252.8	1256.3	749.1	507.2	2.470	2.570	3.9%		2374	1.04	2470	9.2	268
Average					2.462	2.570	4.2%	153.6			2400	9.6	251

TRIAL BATO	CH 3		P <sub>b</sub> =	5.5%							8 14 1		
Specimen A	1249.1	1255.9	749.1	506.8	2.465	2.567	4.0%		2049	1.04	2130	9.3	229
Specimen B	1247.6	1254.7	748.3	506.4	2.464	2,567	4.0%		2275	1.04	2370	9.0	263
Specimen C	1246.9	1254.9	747.9	507.0	2.459	2.567	4.2%		2120	1.04	2200	8.9	247
Average					2.463	2.567	4.1%	153.7			2230	9.1	247

TRIAL BATO	CH 4		P <sub>b</sub> =	5.6%								t in th	A COL
Specimen A	1252.3	1257.3	748.7	508.6	2.462	2.552	3.5%	2.5	2143	1.04	2230	8.6	259
Specimen B	1249.2	1254.8	747.9	506.9	2.464	2.552	3.4%		2078	1.04	2160	8.6	251
Specimen C	1253.6	1257.8	748.3	509.5	2.460	2.552	3.6%		2159	1	2160	8.7	248
Average					2.462	2.552	3.5%	153.6			2180	8.6	253

TRIAL BATO	CH 5		P <sub>b</sub> =	5.7%									
Specimen A	1251.3	1255.7	749.1	506.6	2.470	2.537	2.6%		2041	1.04	2120	8.1	262
Specimen B	1249.0	1254.2	748.5	505.7	2.470	2.537	2.6%		2037	1.04	2120	8.1	262
Specimen C	1253.1	1257.4	748.9	508.5	2.464	2.537	2.9%		2020	1.04	2100	8.4	250
Average					2.468	2.537	2.7%	154.0			2110	8.2	258

Marshall Technician: Matt Harrison Date Tested: 9/13/2023



AGGREGATE SPECIFIC GRAVITY & COMBINED GRADATION WORKSHEET - 6F RA Top MIX

NYSDOT FACILITY #: MIX DESIGN DATE: 9/19/2023 PLANT NAME: Green Asphalt Co LLC H0385

#### **Average Bin Gradations**

	Not	Used		Stone (- '8)	RAF	Sand										
Sieve	% Ret.	% Pass	% Ret.	% Pass												
1.5"		100.0		100.0		100.0		100.0		100.0		100.0	0.0	100.0	0.0	100.0
1"		100.0		100.0		100.0		100.0		100.0		100.0	0.0	100.0	0.0	100.0
3/4"		100.0		100.0		100.0		100.0		100.0		100.0	0.0	100.0	0.0	100.0
1/2"		100.0		100.0		100.0		100.0		100.0		100.0	1.6	98.4	0.0	100.0
1/4"		100.0		100.0		100.0		100.0		100.0		100.0	46.3	52.1	1.1	98.9
1/8"		100.0		100.0		100.0		100.0		100.0		100.0	28.9	23.2	23.0	75.9
#20		100.0		100.0		100.0		100.0		100.0		100.0	7.4	15.8	33.9	42.0
#40		100.0		100.0		100.0		100.0		100.0		100.0	5.0	10.8	11.2	30.8
#80		100.0		100.0		100.0		100.0		100.0		100.0	5.0	5.8	13.0	17.8
#200		100.0		100.0		100.0		100.0		100.0		100.0	3.2	2.6	10.4	7.4
Pan													2.6		7.4	14.
Totals	0.0		0.0	14.54	0.0		0.0		0.0		0.0	FA PA	100.0		100.0	

Stockpiles Sampled By: Matt Harrison Date Sampled: 9/12/2023 Matt Harrison Date Tested: 9/13/2023 Gradation Technician:

#### 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	Rap 6F Stone (- 5/8)	RAP Sand					
% Coarse Agg.							47.9%	1.1%
Test Required?	NO	NO	NO	NO	NO	NO	YES	NO
A) Wt. in Air							2022.0	
B) Wt. SSD							2036.5	
C) Wt. in Water							1324.4	
G <sub>sb</sub> (A/(B-C)							2.839	
G <sub>sa</sub> (A/(A-C)							2.899	

#### 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	Rap 6F Stone (- 5/8)	RAP Sand					
% Fine Agg.							52.1%	98.9%
Test Required?	NO	NO	NO	NO	NO	NO	YES	YES
A) Wt. in Air							1028.2	1019.0
B) Wt. Flask + Water							1242.6	1241.5
C) Wt. Flask + Water + Sample							1904.2	1885.6
S) Wt. SSD							1028.9	1021.6
G <sub>sb</sub> (A/(B+S-C)							2.799	2.699
G <sub>sa</sub> (A/(B+A-C)							2.805	2.718

## **Combined Aggregate Specific Gravity**

	Not Used	Rap 6F Stone (- 5/8)	RAP Sand					
Combined G <sub>sb</sub>							2.818	2.699
Combined G <sub>sa</sub>							2.849	2.718

Date Tested: 9/13/2023 Matt Harrison S. G. Technician:

#### Combined Average Gradations, % Passing

											-
Bin	Agg Blend	1.5"	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 Used	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
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 Used	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
Rap 6F Stone (-5/8)	64.4%	64.4	64.4	64.4	63.4	33.6	14.9	10.2	7.0	3.7	1.7
RAP Sand	35.6%	35.6	35.6	35.6	35.6	35.2	27.0	15.0	11.0	6.3	2.6
Total	100.0%	100.0	100.0	100.0	99.0	68.8	42.0	25.1	17.9	10.1	4.3
Specification Limits		100-100	100-100	100-100	95-100	58-72	36-54	15-32	8-25	4-16	2-6

Rev 3/2015

3 of 6



ASPHALT TRIAL GRADATION WORKSHEET -6F RA Top MIX

Not Used	PLANT NAME:	Green Aspl	halt Co	LLC		1	NYSDOT F	ACILITY	#:	H0385			MIX DESI	GN DATE:	:	9/19/202	3
Bin	BATCH 1		_	-													
New Line   Series	Bin		Agg.	Mix			1.5"	1"						#40	#80	#200	Pan
Net Used	Not Used				-	Grams		- 0.0									
Next Used		-				Escape de la companya											
Next Used																	
Bell																_	
Supplement   Fig.   Supplement   Fig.   Supplement   Fig.   Supplement   Fig.   Supplement   S	Not Used		0.0%	0.0%	0.0		0.0	0.0	0.0								0.0
## Send   \$1,50K   \$3.0K   \$3.0K   \$4.0K   \$2.0   \$2.5   \$0.0   \$0.0   \$0.0   \$0.1   \$1.0K   \$0.50   \$1.5   \$5.9   \$4.79   \$4.6   \$4.0   \$2.5   \$5.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0   \$1.0	lot 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
Turph Apphale			64.4%	63.6%	814.0	33.4	0.0	0.0	0.0	13.0	376.9	235.2	60.2	40.7	40.7	26.0	-12.2
Barch Property   Sept   S			35.6%	36.0%	461.0	29.5	0.0	0.0	0.0	0.0	5.1	106.0	156.3	51.6	59.9	47.9	4.6
BATCH 2	/irgin Asphalt			0.4%	5.0	5.0											
Batch Part   Same   S	otal Mix		100.0%	100.0%	1280.0	_	0.0	0.0	0.0	13.0	382.0	341.3	216.5	92.3	100.6	74.0	-7.6
Bin   PABE   March	BATCH 2		-			3.3070											
Binn Bland   Bland   Grams   Grams   L3"   2"   34"   12"   14"   14"   15"   820   840   880   8200   Pan   12"   14"   14"   15"   820   840   880   8200   Pan   12"   14"   14"   15"   820   840   850   820   Pan   12"   12"   14"   14"   15"   820   840   850   820   Pan   12"   12"   14"   14"   15"   820   840   840   820   820   Pan   12"   12"   14"   14"   15"   820   840   840   820   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840   840		Batch Gr		_					Batch	Weights,	Retained	on Sieve	- Grams				
tot Used	Bin			5000 Table		100	1.5"	1"	3/4"	1/2"	1/4"	1/8"	#20	#40	#80	#200	Pan
Batch   Company   Compan	at Head		THE RESERVE AND ADDRESS OF		THE RESERVE OF THE PERSON NAMED IN	Grams	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Batch																_	
Batch																	
Instituted   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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		-															
Second   Company   Compa		-															
Bart   Series   Ser			_					-									
APP Sand   35.6%   36.0%   460.5   29.5   0.0   0.0   0.0   0.0   0.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   15.1   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0   10.0						33.3			_								
Figure Apphale		-							_								4.6
Batch Pate   100.00%   100.00%   128.00   69.1   0.0   0.0   0.0   13.0   381.6   340.9   216.3   92.2   10.5   73.9   -7.6				_			3.0	1.5	5.5	0.5	3.1	255.5		51.5	33.3	7579.759	7.0
BATCH 3    Batch P <sub>6</sub>   S. 5589   S. 5890   Satch Weights, Retained on Sieve - Grams   Satch Weights, Satch Grams   Satch Weights, Retained on Sieve - Grams   Satch Weights, Satch		1	100.0%	100.0%	1280.0		0.0	0.0	0.0	13.0	381.6	340.9	216.3	92.2	100.5	73.9	-7.6
Bin   Age   Mix   Blend   Blend   Grams   1.5"   1"   3/4"   1/2"   1/4"   1/8"   #20   #40   #80   #200   Pan	DATCHA	Batch	P <sub>b</sub> :	5.5%		5.40%											
Sect	BATCH 3	Batch Gr	rams:	1280.0					Batch	Weights,	Retained	on Sieve	- Grams				
Second   S	Bin		Agg.	Mix	Batch	Asph.	1 5"	1"	2/4"	1/2"	1///	1/0"	#20	#40	#00	#200	Pop
Detail   Color   Col	DIII		Blend	Blend	Grams	Grams	1.5	1	3/4	1/2	1/4	1/0	#20	#40	#60	#200	Pan
Set Used	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Not Used																_	
Not Used 0.0% 0.0% 0.0% 0.0 0.0 0.0 0.0 0.0 0.0												_					
Rap 6F Stone (-5/8) 64.4% 63.5% 812.3 33.3 0.0 0.0 0.0 13.0 376.1 234.8 60.1 40.6 40.6 26.0 -12.2 AAP Sand 35.6% 35.9% 460.1 29.4 0.0 0.0 0.0 0.0 5.1 105.8 156.0 51.5 59.8 47.8 4.6 17/19/19/19/19/19/19/19/19/19/19/19/19/19/																	
AP Sand 35.6% 35.9% 460.1 29.4 0.0 0.0 0.0 0.0 5.1 105.8 156.0 51.5 59.8 47.8 4.6 1/rgin Asphalt 0.6% 7.7 7.7 7.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0				_													The second secon
Description Asphalt   Cotal Mix   100.0%   1280.0   70.4   0.0   0.0   0.0   13.0   381.1   340.6   216.1   92.1   100.4   73.8   77.6						_	-										
Batch   Grams   Gram			35.6%				0.0	0.0	0.0	0.0	5.1	105.8	156.0	51.5	59.8	47.8	4.6
BATCH 4    Batch P <sub>B</sub> : S.6% Batch Grams: 1280.0   Batch Weights, Retained on Sieve - Grams		1	100.0%				0.0	0.0	0.0	13.0	381.1	340.6	216.1	92.1	100.4	73.8	-7.6
Batch Grams   1280.0   Batch Weights, Retained on Sieve - Grams   Bin   Agg   Bin   Batch   Bin   Batch   Bin														32.2		, , , , ,	
Bin	BATCH 4			_					Batch	Weights,	Retained	on Sieve	- Grams				
Set   Continue   Con	Bin			1000000000			1.5"	1"	3/4"	1/2"	1/4"	1/8"	#20	#40	#80	#200	Pan
Not Used	Not Used			_	-	Granis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Second   Color Used   Color U						W Selection											
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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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						3 - A			_								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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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						3 2 7 3 7											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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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		0.0	0.0	0.0
AP Sand 35.6% 35.9% 459.6 29.4 0.0 0.0 0.0 0.0 5.1 105.7 155.8 51.5 59.7 47.8 4.6 (rigin Asphalt 0.7% 9.0 9.0 9.0 0.0 0.0 0.0 0.0 13.0 380.7 340.2 215.8 92.0 100.3 73.8 -7.6 (rotal Mix 100.0% 100.0% 1280.0 71.7 0.0 0.0 0.0 0.0 13.0 380.7 340.2 215.8 92.0 100.3 73.8 -7.6 (rotal Mix 100.0% 100.0% 1280.0 71.7 0.0 0.0 0.0 0.0 13.0 380.7 340.2 215.8 92.0 100.3 73.8 -7.6 (rotal Mix 100.0% 1280.0 71.7 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
Figure   Section   Secti	Rap 6F Stone (-5/8)		64.4%	63.4%	811.4	33.3	0.0	0.0	0.0	13.0	375.7	234.5	60.0	40.6	40.6	26.0	-12.2
Batch Pb   Batch Pb   S.7%   Batch Pb   S.7%   Batch Pb   S.7%   Batch Grams   S.80%   S.8%	RAP Sand		35.6%	35.9%	459.6	29.4	0.0	0.0	0.0	0.0	5.1	105.7	155.8	51.5	59.7	47.8	4.6
BATCH 5  Batch P <sub>b</sub> : 5.7% Batch Grams: 1280.0  Bin Agg. Mix Blend Blend Grams (Grams) 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	/irgin Asphalt			0.7%	9.0	9.0	12 400		5,000							4	
BATCH 5  Batch Farms: 1280.0  Bin Agg. Blend Blend Blend Grams 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	otal Mix	1	100.0%	100.0%	1280.0		0.0	0.0	0.0	13.0	380.7	340.2	215.8	92.0	100.3	73.8	-7.6
Batch Grams   120.0   Batch Weights, Retailed on Sieve - Grams   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   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   0.0	BATCH 5	Batch	P <sub>b</sub> :	5.7%		5.00%											
Blend Blend Grams Grams 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		Batch Gr		_					Batch	Weights,	Retained	on Sieve	- Grams				
lot 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         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         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         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         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	Bin			10.000.0000			1.5"	1"	3/4"	1/2"	1/4"	1/8"	#20	#40	#80	#200	Pan
lot 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         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         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         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         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	lot Used		-	_			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
Not Used 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
Rap 6F Stone (-5/8)         64.4%         63.3%         810.6         33.2         0.0         0.0         0.0         13.0         375.3         234.3         60.0         40.5         40.5         25.9         -12.2           RAP Sand         35.6%         35.9%         459.1         29.4         0.0         0.0         0.0         5.0         105.6         155.6         51.4         59.7         47.7         4.6           Virgin Asphalt         0.8%         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3         10.3	Not Used		0.0%	0.0%	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RAP Sand 35.6% 35.9% 459.1 29.4 0.0 0.0 0.0 0.0 5.0 105.6 155.6 51.4 59.7 47.7 4.6 Virgin Asphalt 0.8% 10.3 10.3	Not Used		0.0%	0.0%	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
/irgin Asphalt 0.8% 10.3 10.3	Rap 6F Stone (-5/8)		64.4%	63.3%	810.6	33.2	0.0	0.0	0.0	13.0	375.3	234.3	60.0	40.5	40.5	25.9	-12.2
			35.6%			-	0.0	0.0	0.0	0.0	5.0	105.6	155.6	51.4	59.7	47.7	4.6
otal Mix   100.0%   100.0%   1280.0   73.0   0.0   0.0   0.0   13.0   380.3   339.8   215.6   91.9   100.2   73.7   -7.6	irgin Asphalt			0.8%	10.3	10.3							A series			0.50	
			100.0%	100.0%	1280.0	73.0	0.0	0.0	0.0	13.0	380.3	339.8	215.6	91.9	100.2	73.7	-7.6

5.70



MIX VOLUMETRIC PROPERTIES WORKSHEET -6F RA Top MIX

PLANT: Green Asphalt Co LLC NYSDOT FACILITY #: H0385 MIX DESIGN DATE: 9/19/2023

Agg		NYSDOT		G <sub>sb</sub>	Total Mix Composition by Weight							
Agg. Blend %	Constituent Material	Source	G <sub>sa</sub>		Trial Batch							
210114 70		304.66			1	2	3	4	5			
0.0%	Not Used				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%	Not Used				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%	Not Used				0.0%	0.0%	0.0%	0.0%	0.0%			
0.0%	Not Used				0.0%	0.0%	0.0%	0.0%	0.0%			
64.4%	Rap 6F Stone (-5/8)		2.849	2.818	63.6%	63.5%	63.5%	63.4%	63.3%			
35.6%	RAP Sand	400000000000000000000000000000000000000	2.718	2.699	36.0%	36.0%	35.9%	35.9%	35.9%			
	Virgin Asphalt				0.4%	0.5%	0.6%	0.7%	0.8%			
100.0%					100.0%	100.0%	100.0%	100.0%	100.0%			

	Mix Conoral Proporties	Bull						
	Mix General Properties			1	2	3	4	5
P <sub>b</sub>	Percent Total Asphalt Binder, %			5.3%	5.4%	5.5%	5.6%	5.7%
$P_{ba}$	Percent Absorbed Asphalt Binder, %			1.11%	0.97%	1.00%	0.85%	0.69%
P <sub>be</sub>	Percent Effective Asphalt Binder, %			4.25%	4.48%	4.56%	4.80%	5.05%
DP	Dust Proportion (0.6 to 1.2 desired)			1.0	1.0	0.9	0.9	0.9
G <sub>mm</sub>	Mix Maximum Specific Gravity			2.584	2.570	2.567	2.552	2.537
G <sub>mb</sub>	Mix Bulk Specific Gravity			2.465	2.462	2.463	2.462	2.468
$G_{sb}$	Aggregate Bulk Gravity			2.775	2.775	2.775	2.775	2.775
$G_{se}$	Aggregate Effective Gravity			2.870	2.858	2.860	2.847	2.833
$G_{sa}$	Aggregate Apparent Specific Gravity			2.801	2.801	2.801	2.801	2.801

	lix Assentance Properties	Low	High					Tria	al Batch	1			
IV.	lix Acceptance Properties	Limit	Limit	1 2 3 4			5						
VMA	Voids in Mineral Aggregate, %	13.5%		040	15.9%	S	16.1%	A.	16.1%	4	16.2%	A.	16.1%
VIVIA	Note: All five trial batches must meet the minimum VMA requirement.												
VFA	Voids Filled with Asphalt, %	65%	75%	A.	71.0%	900	73.9%	8	74.9%	X	78.3%	×	83.1%
Pa	Percent Air Voids, %	3.0%	5.0%	Q.S.	4.6%	10	4.2%	4	4.1%		3.5%	X	2.7%
	Marshall Stability (Corrected), lb	1500		S	2940	W.	2400	Ar.	2230		2180	4	2110
	Marshall Flow, 0.01"	8	12	A.	10.5	A	9.6	A.	9.1	Spage.	8.6	1800	8.2
	Marshall Quotient, lb/0.01"	150		d	279	V	251	AND .	247	AP	253	V	258

Rev 3/2015 5 of 6



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

PLANT NAME: Green Asphalt Co LLC NYSDOT FACILITY #: H0385 MIX DESIGN DATE: 9/19/2023 Voids in Mineral Aggregate Voids Filled with Asphalt 20.0% 90% 80% 15.0% 70% 10.0% 60% 50% 5.0% 40% 0.0% 30% 5.2% 6.2% 5.2% 6.2% Percent Total Asphalt **Percent Total Asphalt** ---VMA VMA Minimum VFA Maximum VFA Minimum Air Voids **Marshall Stability** 6.0% 3,500 Marshall Stability, Ib 5.0% 3,000 % 4.0% 3.0% 2.0% 2,500 2,000 1,500 1.0% 0.0% 1,000 5.2% 5.7% 6.2% 5.2% 5.7% 6.2% Percent Total Asphalt Percent Total Asphalt ----Air Voids Air Voids Maximum Stability Minimum Air Voids Minimum Stability **Marshall Flow Marshall Quotient** 14 300 Marshall Quotient, lb/0.01" Marshall Flow, 0.01. 250 200 150 100 5.2% 5.7% 6.2% 5.2% 5.7% 6.2% **Percent Total Asphalt Percent Total Asphalt** Flow Flow Maximum Flow Minimum Quotient Minimum Quotient

Property	High	Low
Voids in Mineral Aggregate (VMA), %	5.7%	5.3%
Voids Filled with Asphalt (VFA), %	5.5%	5.3%
Percent Air Voids, %	5.6%	5.3%
Marshall Stability (Corrected), lb	5.7%	5.3%
Marshall Flow, 0.01"	5.7%	5.3%
Marshall Quotient, lb/0.01"	5.7%	5.3%
Overlap	5.5%	5.3%

Midpoint	5.4%
Desired Total Asphalt Content P <sub>b</sub>	5.4%

Properties at Desired AC%
16.1%
73.9%
4.2%
2400
9.6
261.6

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.