Aggregate Optimization Chart

Production Gradation Report

PLANT #: P-102

Contractor: _____

Sample Date: 6/10/24

Concrete Grade: **S2M, 3500HP**

Dates Test Represents: 6/11/2024 through 6/17/2024

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1550	9.23	2.69	50.0
26A	58-003	Stoneco	350	2.09	2.69	11.3
2NS	63-114	Highland	1200	7.26	2.65	38.7
		Total Wt	**3100**	**18.58**		100.0

<----- Verify this number is 100%

Sieve	6AA	26A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	100.0	100.0	100.0	100.0	0.0	0.0
1"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	84.5	100.0	100.0	92.3	7.8	7.8
1/2"	44.0	99.8	100.0	72.0	20.3	28.0
3/8"	23.3	89.0	100.0	60.4	11.6	39.6
#4	6.5	7.3	99.1	42.4	18.0	57.6
#8	2.6	2.5	84.8	34.4	8.0	65.6
#16	2.0	2.0	67.1	27.2	7.2	72.8
#30	1.8	1.8	47.4	19.5	7.7	80.5
#50	1.7	1.7	15.9	7.2	12.3	92.8
#100	1.6	1.6	2.9	2.1	5.1	97.9
LBW	1.4	1.5	0.0	0.9	1.2	99.1

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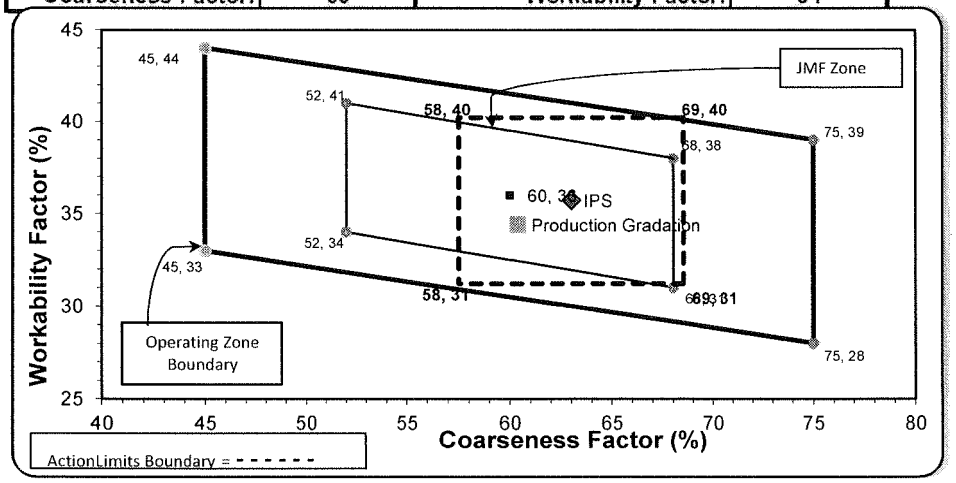
*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") aggregate is used.

Production Gradation ◉ Batch Plant Gradations ○ Aggregate Supplier Gradations

Coarseness Factor:	60	Workability Factor:	34



Intial Production Sample (IPS)

Coarseness Factor:	63
Workability Factor:	36

Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

PREPARED BY:
SM, LLC Technical Service

Approved By:

Daily Summary Report

Date	Monday, June 10, 2024		
Sample Id	-1376934402	-1989637907	-674973834
Plant	S102 Superior Novi	S102 Superior Novi	S102 Superior Novi
Product	1067 26A Mod LS	1022 2NS GR	1051 6AA LS
Specification	26A Mod LS Spec	2NS GR Spec	6AA LS
Sample Type	Production	QA	QA
Time	14:08	14:10	14:15
2" (50mm)	100.0		100.0
1 1/2" (37.5mm)	100.0		100.0
1" (25mm)	100.0		100.0
3/4" (19mm)	100.0		84.5
1/2" (12.5mm)	99.8		44.0
3/8" (9.5mm)	89.0	100.0	23.3
#4 (4.75mm)	7.3	99.1	6.5
#8 (2.36mm)	2.5	84.8	2.6
#16 (1.18mm)	2.0	67.1	2.0
#30 (.6mm)	1.8	47.4	1.8
#50 (.3mm)	1.7	15.9	1.7
#100 (.15mm)	1.6	2.9	1.6
#200 (75µm)	1.6	0.2	1.50
Pan	0.0	0.0	0.00
FM		2.83	
Wash Loss (#200/75um)	1.5	0.0	1.4
Total Moisture	3.06	3.24	2.68