

Aggregate Optimization Chart

Production Gradation Report

PLANT #: P-102

Sample Date: 3/18/24

Concrete Grade: DM, 4500HP

Contractor: _____

Dates Test Represents: 3/19/2024 through 3/25/2024

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1400	8.34	2.69	47.5
26A	58-003	Stoneco	400	2.38	2.69	13.6
2NS	63-114	Highland	1150	6.95	2.65	39.0
Total Wt			2950	17.68		100.0

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



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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"	99.9	100.0	100.0	100.0	0.0	0.0
3/4"	84.5	100.0	100.0	92.6	7.3	7.4
1/2"	43.8	97.8	100.0	73.0	19.6	27.0
3/8"	23.9	80.1	100.0	61.2	11.8	38.8
#4	4.2	9.2	99.2	41.9	19.3	58.1
#8	2.2	2.8	85.4	34.7	7.2	65.3
#16	1.8	1.8	67.6	27.5	7.3	72.5
#30	1.6	1.5	48.4	19.8	7.6	80.2
#50	1.5	1.3	21.0	9.1	10.8	90.9
#100	1.4	1.2	4.1	2.4	6.6	97.6
LBW	1.1	1.3	0.8	1.0	1.4	99.0

*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.

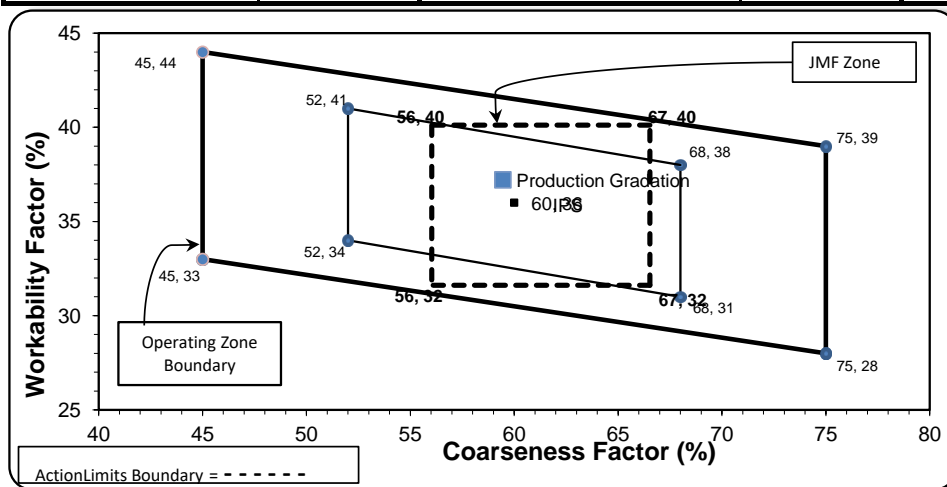
Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	59	Workability Factor:	35	37.2
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Coarseness Factor:	61
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Workability Factor:	36
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Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.3	0.7	0.7
3/4"	89.2	10.1	10.8
1/2"	70.7	18.5	29.3
3/8"	60.7	10.0	39.3
#4	44.4	16.3	55.6
#8	35.9	8.5	64.1
#16	27.3	8.6	72.7
#30	19.1	8.2	80.9
#50	7.4	11.7	92.6
#100	1.9	5.6	98.1
LBW	0.7	1.2	99.3

PREPARED BY:
 SM, LLC Technical Service

Approved By: