

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-102**

Sample Date: 8/6/26

Concrete Grade: **P1M-3500HP**

Contractor: _____

Dates Test Represents: 8/7/2026 through 8/13/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	58-003	Stone Co	1300	7.74	2.69	41.4
IA	58-003	Stone Co	600	3.57	2.69	19.1
2NS	63-114	Highland	1240	7.47	2.66	39.5
Total Wt			3140	18.79		100.0

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

Sieve	CA	IA	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"	64.4	100.0	100.0	85.3	14.7	14.7
3/4"	37.0	100.0	100.0	73.9	11.3	26.1
1/2"	18.6	90.8	100.0	64.5	9.4	35.5
3/8"	11.7	76.6	100.0	59.0	5.6	41.0
#4	5.8	17.9	98.2	44.6	14.4	55.4
#8	3.1	2.3	84.0	34.9	9.7	65.1
#16	2.6	1.7	67.0	27.9	7.0	72.1
#30	1.8	1.5	47.4	19.8	8.1	80.2
#50	1.6	1.3	23.9	10.3	9.4	89.7
#100	1.4	1.3	7.4	3.8	6.6	96.2
LBW	1.1	1.1	1.4	1.2	2.5	98.8



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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.

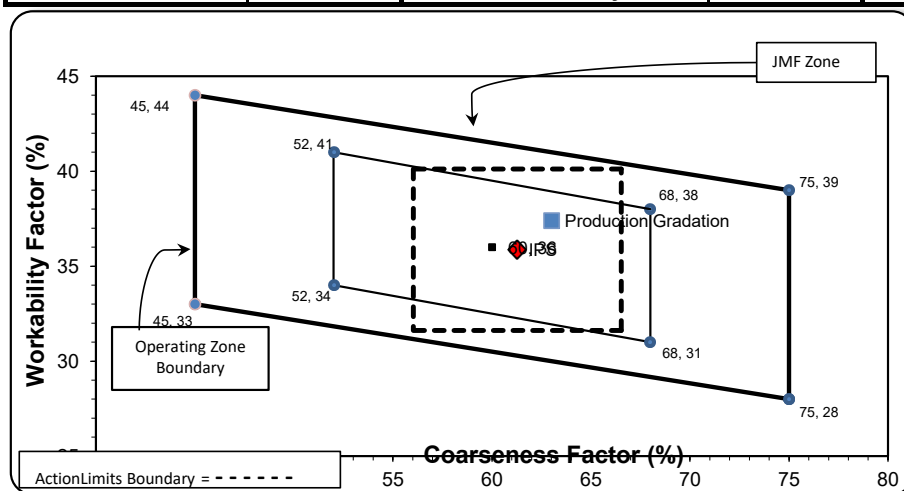
Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	63	Workability Factor:	35	37.4
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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:
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