

Aggregate Optimization Chart

PLANT #: **P-35**

Sample Date: 5/11/26

Concrete Grade: **PM, 3500HP**

Contractor: _____

Dates Test Represents: 5/12/2026 through 5/18/2026

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	58-003	Stoneco	700	4.17	2.69	22.9
IA	58-003	Stoneco	1180	7.03	2.69	38.6
2NS	81-019	Pleasant Lk	1180	7.19	2.63	38.6
Total Wt			3060	18.39		100.0

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



Superior Materials, LLC
 30701 W. 10 Mile Rd.
 Suite 500
 Farmington Hills, MI 48336

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"	100.0	64.6	100.0	86.3	13.7	13.7
3/4"	100.0	42.3	100.0	77.7	8.6	22.3
1/2"	85.8	8.4	100.0	61.4	16.3	38.6
3/8"	73.8	4.7	100.0	57.3	4.2	42.7
#4	19.0	1.9	97.5	42.7	14.6	57.3
#8	1.9	1.6	86.1	34.3	8.4	65.7
#16	1.2	1.4	68.1	27.1	7.2	72.9
#30	1.1	1.3	48.2	19.3	7.7	80.7
#50	1.0	1.2	18.0	7.6	11.7	92.4
#100	1.0	1.2	2.5	1.7	6.0	98.3
LBW	0.9	1.1	0.4	0.8	0.9	99.2

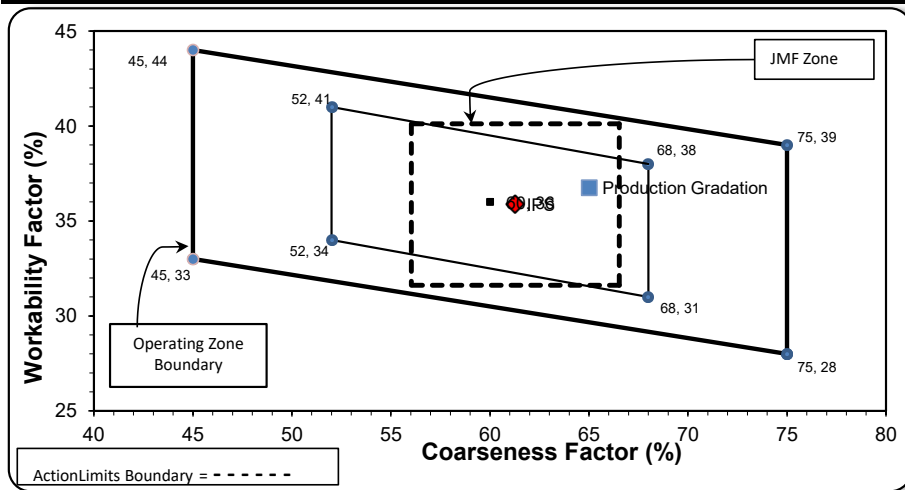
*Maximum % Retained must be above the 3/8" sieve.
 *Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
 **% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
 ***% Retained must be at least 4% for the 3/4" sieve when a 1.5" max.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

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations Adjusted WF Initial Production Sample (IPS)

Coarseness Factor:	65	Workability Factor:	34	Adjusted WF	36.8
---------------------------	-----------	----------------------------	-----------	--------------------	-------------

Coarseness Factor:	61
---------------------------	-----------

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"	99.3	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:
 Nancy Donahue