Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P-35** 6/6/2026 Contractor: _____

Sample Date: 6/6/26 Concrete Grade: **P1M, 3500HP**

Dates Test Represents: 6/7/2026 through 6/14/2026 MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft³	Specific Gravity	% Contribution
CA	58-003	Stone Co	1450	8.64	2.69	46.0
IA	58-003	Stone Co	525	3.13	2.69	16.6
2NS	81-019	Pleasant Lk	1180	7.14	2.65	37.4
		Total Wt	**3155**	**18.90**		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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	84.1	100.0	100.0	92.7	7.3	7.3
1/2"	36.5	97.8	100.0	70.5	22.2	29.5
3/8"	21.0	75.6	100.0	59.6	10.8	40.4
#4	3.7	16.2	97.2	40.7	18.9	59.3
#8	2.0	4.4	85.6	33.7	7.1	66.3
#16	1.6	2.9	69.8	27.3	6.3	72.7
#30	1.4	2.6	51.5	20.3	7.0	79.7
#50	1.3	2.6	18.0	7.8	12.6	92.2
#100	1.2	2.5	2.3	1.8	5.9	98.2
LBW	1.0	2.2	0.6	1.1	0.8	98.9

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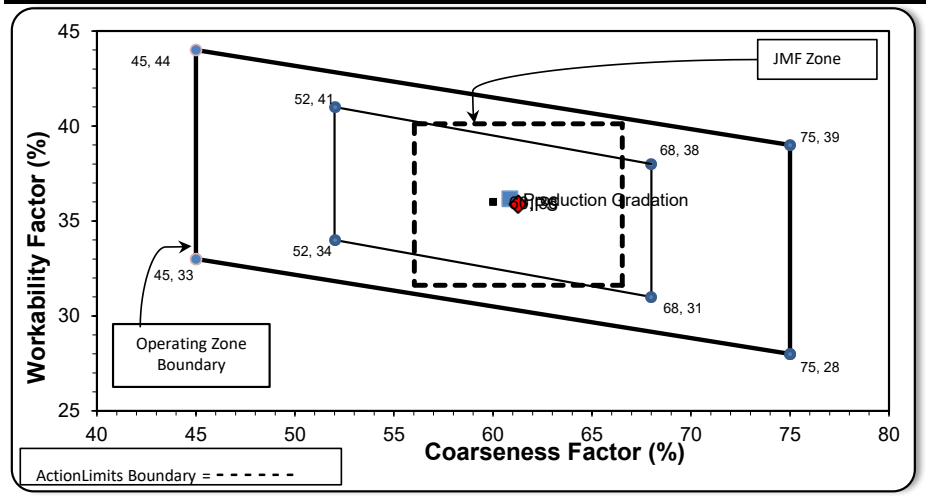
*Maximum % Retained must be above the 3/8" sieve.
*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for the 3/4" sieve when a 1.5" max. size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

Production Gradation ◉ Batch Plant Gradations ○ Aggregate Supplier Gradations

Coarseness Factor:	61	Workability Factor:	34	Adjusted WF 36.2



Intial Production Sample (IPS)

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

Daily Summary Report

Date Saturday, June 06, 2026

Sample Id	-1989638493	-1989638498	-1989638494	-1989636948	-1989638495
Plant	S35 Superior Romulus	S35 Superior Romulus	S35 Superior Romulus	S35 Superior Romulus	S35 Superior Romulus
Product	1022 2NS GR	1051 6AA LS	1067 26A Mod LS	7919 COARSE AGG P1M LS	7920 INTERMED AGG P1M LS
Specification	2NS GR Spec	6AA LS	26A LS Spec	Coarse Agg P1M LS Target	Intermed Agg P1M LS Target
Sample Type	QA	QA	QA	QA	QA
Time	13:00	13:00	13:00	13:00	13:00
2" (50mm)		100.0	100.0	100.0	100.0
1 1/2" (37.5mm)		100.0	100.0	100.0	100.0
1" (25mm)		100.0	100.0	47.1	100.0
3/4" (19mm)		84.1	100.0	17.6	99.7
1/2" (12.5mm)		36.5	97.8	6.9	85.5
3/8" (9.5mm)	100.0	21.0	75.6	4.5	64.6
#4 (4.75mm)	97.2	3.7	16.2	2.9	12.9
#8 (2.36mm)	85.6	2.0	4.4	2.6	3.5
#16 (1.18mm)	69.8	1.6	2.9	2.3	2.2
#30 (.6mm)	51.5	1.4	2.6	2.1	1.8
#50 (.3mm)	18.0	1.3	2.6	2.0	1.6
#100 (.15mm)	2.3	1.2	2.5	1.8	1.5
#200 (75µm)	0.8	1.10	2.4	1.7	1.4
Pan	0.0	0.00	0.0	0.0	0.0
FM	2.76				
Wash Loss (#200/75um)	0.6	1.0	2.2	1.6	1.3
Total Moisture	3.25	2.52	3.47	1.32	2.13

Daily Summary Report

Comments

Query Selections
Date Created 06/06/2026
Date Range 06/07/2026 - 06/14/2026
Plant Superior Romulus
Sample Type QA