

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P11**

Contractor: _____

Sample Date: **6/30/25**

Concrete Grade: **P1M, 3500HP, 4000HP**

Dates Test Represents: **7/1/2025** through **7/7/2025**

MDOT No.: _____

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
CA	71-47	Presque Isle	970	5.93	2.62	31.6
IA	71-47	Presque Isle	900	5.50	2.62	29.3
2NS	63-115	Ray Rd	1200	7.26	2.65	39.1
Total Wt			3070	18.70		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"	96.1	100.0	100.0	98.8	1.2	1.2
1"	26.4	100.0	100.0	76.7	22.0	23.3
3/4"	6.2	99.2	100.0	70.1	6.6	29.9
1/2"	1.9	77.2	100.0	62.3	7.8	37.7
3/8"	1.4	52.2	100.0	54.8	7.5	45.2
#4	1.3	8.5	97.0	40.8	14.0	59.2
#8	1.2	3.1	80.3	32.7	8.1	67.3
#16	1.2	2.4	62.3	25.4	7.2	74.6
#30	1.2	2.2	45.3	18.7	6.7	81.3
#50	1.2	2.1	23.2	10.1	8.7	89.9
#100	1.1	2.0	5.1	2.9	7.1	97.1
LBW	1.0	1.9	0.8	1.2	1.7	98.8

*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 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used.



Superior Materials, LLC

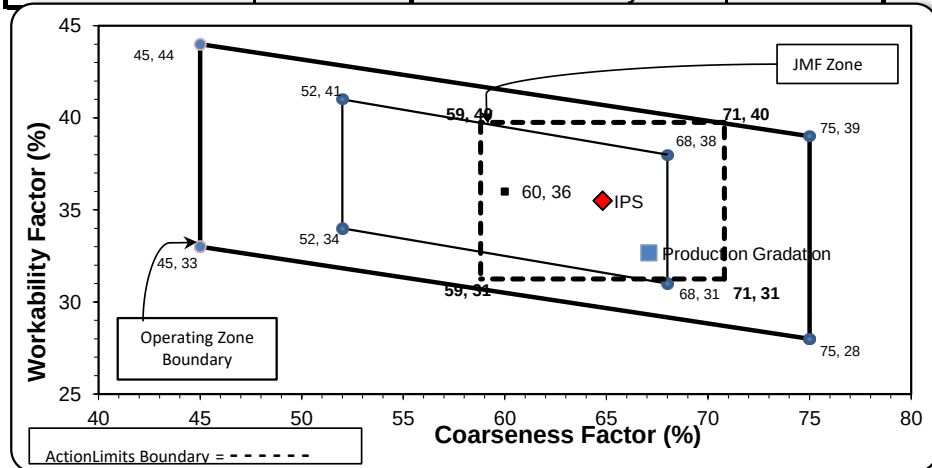
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Farmington Hills, MI 48336

Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Coarseness Factor:	67	Workability Factor:	33
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Initial Production Sample (IPS)

Coarseness Factor:		65	
Workability Factor:		36	
Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	99.0	0.6	0.6
1"	84.0	15.3	16.0
3/4"	73.5	10.5	26.5
1/2"	65.2	8.2	34.8
3/8"	58.2	7.1	41.8
#4	44.1	14.1	55.9
#8	35.5	8.6	64.5
#16	29.1	6.4	70.9
#30	21.9	7.3	78.1
#50	9.6	12.2	90.4
#100	2.6	7.1	97.4
LBW	1.0	1.6	99.0

PREPARED BY:
SM, LLC Technical Service

Approved By: