

Aggregate Optimization Chart

Production Gradation Report

PLANT #: **P11**

Contractor: _____

Sample Date: **6/23/25**

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

Dates Test Represents: **6/24/2025** through **6/30/2025**

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"	95.4	100.0	100.0	98.5	1.5	1.5
1"	45.4	100.0	100.0	82.7	15.8	17.3
3/4"	8.4	94.5	100.0	69.4	13.3	30.6
1/2"	2.1	74.8	100.0	61.7	7.8	38.3
3/8"	2.0	54.1	100.0	55.6	6.1	44.4
#4	1.8	13.0	96.7	42.2	13.4	57.8
#8	1.7	3.8	80.4	33.1	9.1	66.9
#16	1.6	3.0	62.8	25.9	7.1	74.1
#30	1.5	2.8	45.7	19.2	6.8	80.8
#50	1.3	2.6	23.7	10.4	8.7	89.6
#100	1.2	2.5	5.5	3.3	7.2	96.7
LBW	0.9	2.0	0.8	1.2	2.1	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.

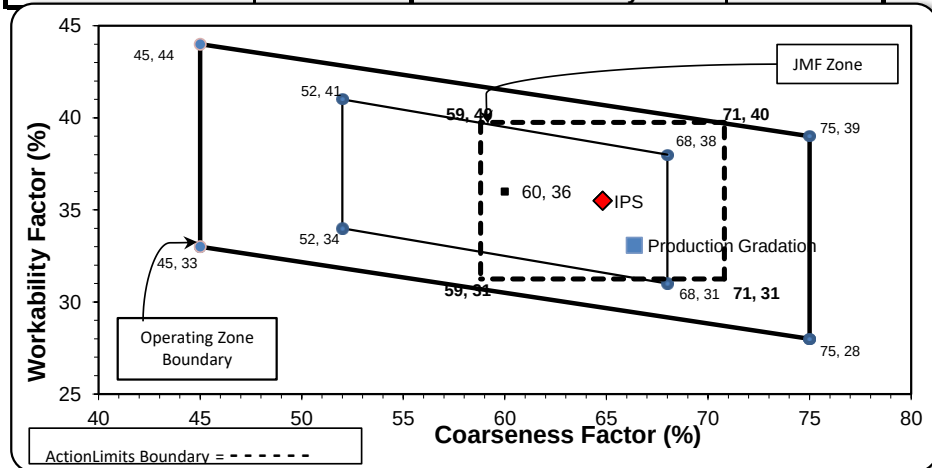


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Production Gradation ☐ Batch Plant Gradations ☒ Aggregate Supplier Gradations

Coarseness Factor:	66	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: