

# Aggregate Optimization Chart

MIX ID'S: DDP154E7 and DDP154E8

Production Gradation Report

**PLANT #:** **P-102**

Sample Date: 10/30/17

Concrete Grade: **P1M**

Contractor: \_\_\_\_\_

Dates Test Represents: 10/30/2017 to 11/5/2017

MDOT No.: \_\_\_\_\_

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	Stoneco	1400	8.34	2.69	44.4
IA	58-003	Stoneco	520	3.10	2.69	16.5
2NS	63-114	AA Highland	1230	7.44	2.65	39.0
<b>Total Wt</b>			<b>3150</b>	<b>18.88</b>		<b>100.0</b>

<----- 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"	67.3	100.0	100.0	85.5	14.5	14.5
3/4"	42.3	100.0	100.0	74.4	11.1	25.6
1/2"	18.4	94.0	100.0	62.7	11.6	37.3
3/8"	13.1	81.7	100.0	58.4	4.4	41.6
#4	4.1	24.8	99.6	44.8	13.5	55.2
#8	2.6	5.4	85.6	35.5	9.3	64.5
#16	2.1	2.2	67.0	27.5	8.0	72.5
#30	1.9	1.7	45.9	19.0	8.4	81.0
#50	1.8	1.5	14.3	6.6	12.4	93.4
#100	1.7	1.4	2.1	1.8	4.8	98.2
LBW	1.6	1.2	0.3	1.0	0.8	99.0

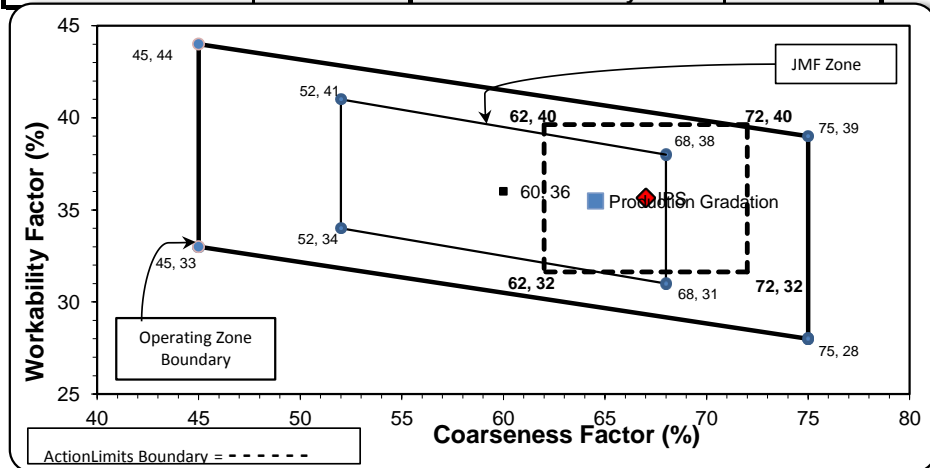
\*Maximum % Retained must be above the 3/8" sieve.  
 \*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.



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Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

<b>Coarseness Factor:</b>	<b>65</b>	<b>Workability Factor:</b>	<b>35</b>
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Initial Production Sample (IPS)

<b>Coarseness Factor:</b>	<b>67</b>		
<b>Workability Factor:</b>	<b>36</b>		
Sieve	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	87.2	12.8	12.8
3/4"	76.6	10.6	23.4
1/2"	64.4	12.2	35.6
3/8"	56.9	7.6	43.1
#4	44.1	12.7	55.9
#8	35.6	8.5	64.4
#16	27.7	8.0	72.3
#30	19.5	8.2	80.5
#50	7.8	11.6	92.2
#100	2.3	5.6	97.7
LBW	0.6	1.6	99.4

PREPARED BY:

Approved By: