

# Aggregate Optimization Chart

MIX ID'S: DDP154E7 and DDP154E8

Production Gradation Report

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

Sample Date: 10/16/17

Concrete Grade: **P1M**

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

Dates Test Represents: 10/16/2017 to 10/22/2017

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

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	Stoneco	1270	7.57	2.69	40.3
IA	58-003	Stoneco	650	3.87	2.69	20.6
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"	63.7	100.0	100.0	85.4	14.6	14.6
3/4"	31.1	100.0	100.0	72.2	13.1	27.8
1/2"	7.4	93.5	100.0	61.3	10.9	38.7
3/8"	4.0	80.2	100.0	57.2	4.1	42.8
#4	2.2	25.1	99.7	45.0	12.2	55.0
#8	1.9	5.6	86.0	35.5	9.5	64.5
#16	1.7	2.3	65.8	26.9	8.6	73.1
#30	1.6	1.8	43.9	18.2	8.7	81.8
#50	1.5	1.6	13.5	6.2	12.0	93.8
#100	1.4	1.5	2.0	1.7	4.6	98.3
LBW	1.4	1.4	0.3	1.0	0.7	99.0

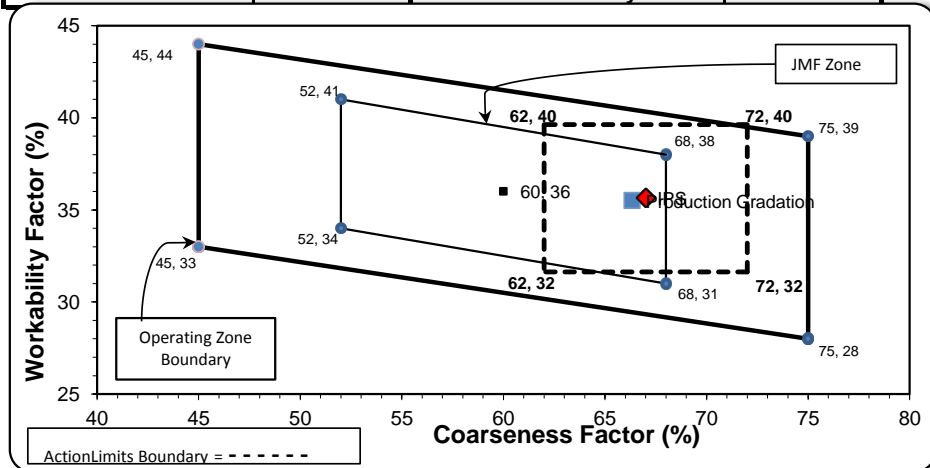
\*Maximum % Retained must be above the 3/8" sieve.  
 \*Any two adjacent sieves must equal 10% except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.  
 \*% Retained must be at least 8% for the 1" sieve when a 2"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



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Production Gradation  Batch Plant Gradations  Aggregate Supplier Gradations

Coarseness Factor: **66**      Workability Factor: **36**



Initial Production Sample (IPS)

Coarseness Factor: <b>67</b>		Workability Factor: <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: