Aggregate Optimization Chart

PLANT #: P-102

5/6/24 Sample Date: Concrete Grade: DM, 4500HP Dates Test Represents: 5/7/2024

through

Contractor:

MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravitv	% Contribution
6AA	58-003	Stoneco	1350	8.04	2.69	45.8
26A	58-003	Stoneco	450	2.68	2.69	15.3
2NS	63-114	Highland	1150	6.95	2.65	39.0
		Total W/A	2050	47.00		100.0

Superior Materials, LLC
30701 W. 10 Mile Rd.
Suite 500
Farmington Hills, MI 4833

l otal Wt		Total Wt 2950 17.68		100.0	< Verify this number is 100%		
Sieve	6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	100.0	10	0.0	100.0	100.0	0.0	0.0
1"	99.8	10	0.0	100.0	99.9	0.1	0.1
3/4"	82.4	10	0.0	100.0	91.9	8.0	8.1
1/2"	37.5	99	9.7	100.0	71.4	20.6	28.6
3/8"	14.3	87	7.5	100.0	58.9	12.5	41.1
#4	2.8	9	.4	99.0	41.3	17.6	58.7
#8	1.9	1	.9	85.3	34.4	6.9	65.6
#16	1.7	1	.6	67.8	27.5	7.0	72.5
#30	1.6	1	.5	49.6	20.3	7.2	79.7
#50	1.4	1	.4	20.8	9.0	11.3	91.0
#100	1.4	1	.4	3.1	2.1	6.9	97.9
LBW	1.2	1	.2	0.7	1.0	1.1	99.0

5/13/2024

*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 Gra	dations 🔘 Ago	gregate Supplier Gradat	tions	Adjusted WF	Intial Production	on Sample (IPS)
Coarseness Factor	: 63	Worl	kability Factor:	34	36.9	Coars	eness Factor:	61
45	15					Work	ability Factor:	36
45, 44				JMF Zone	711	Sieve	Cumulative	%

tor (%) 45 [45, 44 52, 41 56, 40 68, 38 Production Gradation	JMF Zone 75, 39	
Workability Factor (%)	52, 34 45, 33 56, 32 67, 32 68, 31 Operating Zone Boundary	75, 28	
25 +	0 45 50 55 60 65 70 Coarseness Factor (%)	75	80

Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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

PLANT #: P-103

Sample Date: 5/6/24 Concrete Grade: DM, 4500HP Dates Test Represents: 5/7/2024

through

Contractor:

MDOT No.:

				0, 10, 202 1		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1350	8.04	2.69	45.8
26A	58-003	Stoneco	450	2.68	2.69	15.3
2NS	63-114	Highland	1150	6.95	2.65	39.0
		Total W/s	2050	17.60		100.0

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1350	8.04	2.69	45.8
26A	58-003	Stoneco	450	2.68	2.69	15.3
2NS	63-114	Highland	1150	6.95	2.65	39.0
		Total Wt	2950	17.68		100.0

	4		
	UP		

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	Total Wt	2950	17.68		100.0	< Verify this n	umber is 100%
Sieve	6AA	26A		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"	99.8	100.0		100.0	99.9	0.1	0.1
3/4"	82.4	100.0		100.0	91.9	8.0	8.1
1/2"	37.5	99.7		100.0	71.4	20.6	28.6
3/8"	14.3	87.5		100.0	58.9	12.5	41.1
#4	2.8	9.4		99.0	41.3	17.6	58.7
#8	1.9	1.9		85.3	34.4	6.9	65.6
#16	1.7	1.6		67.8	27.5	7.0	72.5
#30	1.6	1.5		49.6	20.3	7.2	79.7
#50	1.4	1.4		20.8	9.0	11.3	91.0
#100	1.4	1.4		3.1	2.1	6.9	97.9
LBW	1.2	1.2		0.7	1.0	1.1	99.0

5/13/2024

*Maximum % Retained must be above the 3/8" sieve.

*Any two adjacent sieves must equal 10% except max.,

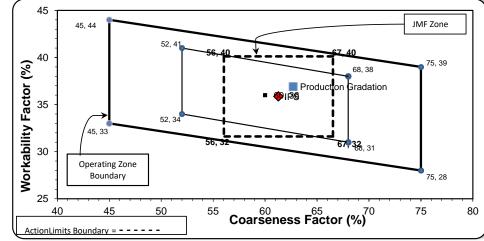
nom. max., #100 and #200 sieves.

*% 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 Gra	dations	Aggregate Supplier Gra	dations	Adjusted WF	Intial Production Sample (IPS	5)
	Coarseness Factor:	63		Workability Factor:	34	36.9	Coarseness Factor:	61
,	45						Workability Factor:	36



Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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

Aggregate Optimization Chart

PLANT #: **12**

Sample Date:

Concrete Grade: DM, 4500HP

5/6/24 5/7/2024

Dates Test F	Represents:	5/7/2024	through	5/13/2024		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1450	8.87	2.62	49.9
26A	71-47	Presque Isle	305	1.87	2.62	10.5
2NS	63-115	Ray Rd	1150	6.95	2.65	39.6
		Total Wt	2905	17.69		100.0

MDOT No.:

Contractor:

Verify this number is 100%

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30701 W. 10 Mile Rd.
Suite 500
Farmington Hills MI 48336

	i Otai VVt	2303 17.03		100.0	< verily this ii	ullibel is 100 /6
Sieve	6AA	26A	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"	96.7	100.0	100.0	98.4	1.6	1.6
3/4"	77.0	100.0	100.0	88.5	9.8	11.5
1/2"	37.9	95.7	100.0	68.6	20.0	31.4
3/8"	22.4	84.9	100.0	59.7	8.9	40.3
#4	4.7	18.3	95.9	42.2	17.5	57.8
#8	2.8	4.1	81.3	34.0	8.2	66.0
#16	2.4	2.5	65.5	27.4	6.6	72.6
#30	2.3	2.1	49.2	20.8	6.5	79.2
#50	2.2	1.9	23.7	10.7	10.2	89.3
#100	2.1	1.7	3.7	2.7	8.0	97.3
LBW	1.9	1.3	0.5	1.3	1.4	98.7

*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 O Batco	ch Plant Gradations	te Supplier Gradations	Adjusted WF	Intial Production	on Sample (IPS)
Coarseness Factor:	ness Factor: 61 Workability Factor: 34		36.5	Coars	eness Factor:
7 45			$\neg \overline{}$	Work	ability Factor:
45, 44		JMF Zone	7 I I	Sieve	Cumulative
52	2, 41		-	Sieve	% Passing I
40]	57, 40	68, 40		2"	100.0
🥷	i	68, 38		1.5"	100.0
	! _			1"	99.3
₽	■ 60, Galest	■ 60,750 Gratation		3/4"	89.0
Factor (%)	i i	i I		1/2"	70.3
1 7 2,	, 34	i		3/8"	59.9
45, 33				#4	41.9
30 -	0.,	68, 32 68, 31		#8	35.9
Operating Zone				#16	27.8
Operating Zone Boundary		75, 28		#30	18.9
> 25				#50	6.3
40 45 50	55 60 6	5 70 75	80	#100	1.7
	Coarseness Fa	actor (%)		LBW	1.0
ActionLimits Boundary =					

Work	cability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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"	89.0	10.3	11.0
1/2"	70.3	18.7	29.7
3/8"	59.9	10.4	40.1
#4	41.9	18.0	58.1
#8	35.9	6.0	64.1
#16	27.8	8.2	72.2
#30	18.9	8.8	81.1
#50	6.3	12.6	93.7
#100	1.7	4.6	98.3
LBW	1.0	0.7	99.0

63

PREPARED BY: SM, LLC Technical Service

Aggregate Optimization Chart

Sample Date:

PLANT #: p11 Concrete Grade: DM, 4500HP

Contractor:

ates Test Represents:		5/7/2024	through	5/13/2024		
gg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1405	8.59	2.62	48.4
26A	71-47	Presque Isle	350	2.14	2.62	12.0
2NS	95-013	Smelter Bay	1150	6.95	2.65	39.6

MDOT No.:

Superior Materials, LLC
30701 W. 10 Mile Rd.
Suite 500
Farmington Hills, MI 48330

	Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%
Sieve	6AA	26	iΑ	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100	0.0	100.0	100.0	0.0	0.0
1.5"	100.0	100	0.0	100.0	100.0	0.0	0.0
1"	95.6	100	0.0	100.0	97.9	2.1	2.1
3/4"	73.0	100	0.0	100.0	86.9	10.9	13.1
1/2"	31.9	95	.7	100.0	66.5	20.4	33.5
3/8"	15.2	84	9	100.0	57.2	9.4	42.8
#4	2.6	18	.3	95.7	41.3	15.8	58.7
#8	2.1	4.	.1	84.9	35.1	6.2	64.9
#16	1.9	2.	5	70.6	29.2	6.0	70.8
#30	1.8	2.	.1	50.7	21.2	8.0	78.8
#50	1.7	1.	.9	23.7	10.4	10.8	89.6
#100	1.6	1.	.7	7.2	3.8	6.6	96.2
LBW	1.3	1.	.3	1.1	1.2	2.6	98.8
Production Gra	adation O Batch Plant Gra	dations	egate Supplier Gra	dations	Adjusted WF	Intial Production	on Sample (IPS

*Maximum % Retained must be above the 3/8" sieve.

*Any two adjacent sieves must equal 10% except max.,

nom. max., #100 and #200 sieves.

62

*% 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 Grad	dations	tions	Adjusted WF	Intial Producti	on Sample (IPS))
Coarseness Factor:	66	Workability Factor:	35	37.6	Coars	eness Factor:	
45				$\neg \top$	Work	ability Factor:	
45, 44			JMF Zone	7 I I	Sieve	Cumulative	
1	52, 41			-	Sieve	% Passing	F
40	56,	40 67, 40			2"	100.0	
(%)		68, 38	75, 39		1.5"	100.0	
		Production (Gradation		1"	100.0	
유 _ 		■ 6 ♦ 3#8S			3/4"	95.0	
Factor 35				1/2"	72.3		
	52, 34	<u> </u>			3/8"	60.4	
Mork 45, 33 Operating Zone Boundary	30.	32 32			#4	42.6	
30 -	,	67, 32 68, 31			#8	36.0	
Operating Zone	7				#16	29.5	
Boundary			75, 28		#30	20.3	
> 25 					#50	9.5	
40 45	50 55	60 65 70	75	80	#100	3.4	
		Coarseness Factor (%) ⁷⁰	. •		LBW	1.3	
ActionLimits Boundary =							

Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	95.0	5.0	5.0
1/2"	72.3	22.8	27.7
3/8"	60.4	11.8	39.6
#4	42.6	17.8	57.4
#8	36.0	6.6	64.0
#16	29.5	6.5	70.5
#30	20.3	9.2	79.7
#50	9.5	10.8	90.5
#100	3.4	6.1	96.6
LBW	1.3	2.1	98.7

PREPARED BY: SM, LLC Technical Service

5/7/2024

PLANT #:

Dates Test Represents:

5/6/24 Sample Date:

Concrete Grade: DM, 4500HP

MDOT No.:

Contractor:

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1350	8.04	2.69	45.8
26A	58-003	Stoneco	450	2.68	2.69	15.3
2NS	81-019	Pleasant Lake	1150	6.95	2.65	39.0
	•	Total WA	2050	47.00		100.0

through

%	
Contribution	
45.8	
15.3	
39.0	

SUPERIOR MATERIALS	

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00.0 00.0 99.8 82.4 37.5	100.0 100.0 100.0 100.0 100.0	2NS 100.0 100.0 100.0 100.0	Cumulative % Passing 100.0 100.0 99.9	% Retained 0.0 0.0 0.1	Cumulative % Retained 0.0 0.0
00.0 99.8 82.4	100.0 100.0 100.0	100.0 100.0	100.0	0.0	0.0
99.8 82.4	100.0 100.0	100.0			
82.4	100.0		99.9	0.1	
		100.0		0.1	0.1
27.5		100.0	91.9	8.0	8.1
31.3	99.7	100.0	71.4	20.6	28.6
14.3	87.5	100.0	58.9	12.5	41.1
2.8	9.4	98.9	41.3	17.6	58.7
1.9	1.9	87.1	35.1	6.2	64.9
1.7	1.6	66.9	27.1	8.0	72.9
1.6	1.5	43.3	17.8	9.3	82.2
1.4	1.4	16.0	7.1	10.7	92.9
1.4	1.4	2.9	2.0	5.1	98.0
1.2	1.2	0.6	1.0	1.0	99.0
	1.6 1.4 1.4	1.6 1.5 1.4 1.4 1.4 1.4 1.2 1.2	1.6 1.5 43.3 1.4 1.4 16.0 1.4 1.4 2.9 1.2 0.6	1.6 1.5 43.3 17.8 1.4 1.4 16.0 7.1 1.4 1.4 2.9 2.0 1.2 0.6 1.0	1.6 1.5 43.3 17.8 9.3 1.4 1.4 16.0 7.1 10.7 1.4 1.4 2.9 2.0 5.1 1.2 0.6 1.0 1.0

5/13/2024

*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

1.5" max. size (nom. Max. 1.0") aggregate is used.

_	Production Gradation	Batch Plant Grade	dations Aggregate Supplier Grada	tions	Adjusted WF	Intial Producti	on Sample (IPS	3)
	Coarseness Factor:	63	Workability Factor:	35	37.6	Coars	eness Factor:	
-	45 .					Work	ability Factor:	
	45, 44			JMF Zone	7 I I	Sieve	Cumulative	
] -5,			31111 20110	-	Sieve	% Passing	R
		52, 41	40			2"	100.0	
	10 1	1 56.	40 07-40			4 = 11	4000	

	,		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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"	89.1	10.2	10.9
1/2"	70.5	18.6	29.5
3/8"	60.5	10.0	39.5
#4	44.1	16.4	55.9
#8	35.6	8.5	64.4
#16	27.7	7.9	72.3
#30	20.6	7.1	79.4
#50	8.7	11.8	91.3
#100	1.6	7.1	98.4
LBW	1.1	0.6	98.9

61

	45 <u>[</u>	45, 44 JMF Zone
Workability Factor (%)	40 -	52, 41 56, 49 75, 39 Production Gradation 52, 34 56, 49 75, 39
Workability	30	45, 33 56, 31 67, \$5, 31 Operating Zone Boundary 75, 28
	25 40) 45 50 55 60 65 70 75 80 Coarseness Factor (%)
Ac	tionLin	its Boundary =

PREPARED BY: SM, LLC Technical Service

5/7/2024

PLANT #:

Dates Test Represents:

Sample Date: 5/6/24 Concrete Grade: DM, 4500HP

Contractor:

MDOT No.:

Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1350	8.04	2.69	45.8
26A	58-003	Stoneco	450	2.68	2.69	15.3
2NS	81-019	Pleasant Lake	1150	6.95	2.65	39.0
	•	Total WA	2050	47.00		100.0

through

Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
NΑ	58-003	Stoneco	1350	8.04	2.69	45.8
A6	58-003	Stoneco	450	2.68	2.69	15.3
IS	81-019	Pleasant Lake	1150	6.95	2.65	39.0
		Total Wt	2950	17.68		100.0

	< Verify this n	umber is 100%
ve ng	% Retained	Cumulative % Retained
	0.0	0.0
	0.0	0.0
	0.1	0.1
	8.0	8.1

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					,	
Sieve	6AA	26A	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"	99.8	100.0	100.0	99.9	0.1	0.1
3/4"	82.4	100.0	100.0	91.9	8.0	8.1
1/2"	37.5	99.7	100.0	71.4	20.6	28.6
3/8"	14.3	87.5	100.0	58.9	12.5	41.1
#4	2.8	9.4	98.9	41.3	17.6	58.7
#8	1.9	1.9	87.1	35.1	6.2	64.9
#16	1.7	1.6	66.9	27.1	8.0	72.9
#30	1.6	1.5	43.3	17.8	9.3	82.2
#50	1.4	1.4	16.0	7.1	10.7	92.9
#100	1.4	1.4	2.9	2.0	5.1	98.0
LBW	1.2	1.2	0.6	1.0	1.0	99.0

5/13/2024

*Maximum % Retained must be above the 3/8" sieve.

*Any two adjacent sieves must equal 10% except max.,

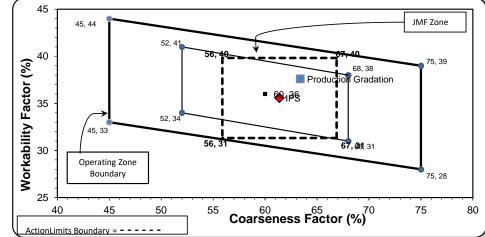
nom. max., #100 and #200 sieves.

*% 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 Gradatio	ns	tions	Adjusted WF Intial Production Sample (IPS)			
Coarseness Factor	: 63	Workability Factor:	35	37.6	Coarseness Factor:	61	
45					Workability Factor:	36	
45			IME Zono	_	Cumulative	%	



Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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"	89.1	10.2	10.9
1/2"	70.5	18.6	29.5
3/8"	60.5	10.0	39.5
#4	44.1	16.4	55.9
#8	35.6	8.5	64.4
#16	27.7	7.9	72.3
#30	20.6	7.1	79.4
#50	8.7	11.8	91.3
#100	1.6	7.1	98.4
LBW	1.1	0.6	98.9

PREPARED BY: SM, LLC Technical Service

PLANT #: P-O2

Sample Date: 5/6/24

Concrete Grade: DM, 4500HP

Dates Test Represents: 5/7/2024 5/13/2024 through % Specific Agg. Class ft³ Pit# Source Weight (SSD) Contribution Gravity 6AA 71-47 Presque Isle 1450 8.87 2.62 49.9 26A 71-47 Presque Isle 305 1.87 2.62 10.5 2NS 1150 63-115 Ray Rd 6.95 2.65 39.6

MDOT No.:

Contractor:



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

	Total Wt	2905	17.69		100.0	< Verify this n	umber is 100%
Sieve	6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	100.0	10	0.0	100.0	100.0	0.0	0.0
1"	96.7	100.0		100.0	98.4	1.6	1.6
3/4"	77.0	10	0.0	100.0	88.5	9.8	11.5
1/2"	37.9	95.7		100.0	68.6	20.0	31.4
3/8"	22.4	84	1.9	100.0	59.7	8.9	40.3
#4	4.7	18	3.3	95.9	42.2	17.5	57.8
#8	2.8	4	.1	81.3	34.0	8.2	66.0
#16	2.4	2	.5	65.5	27.4	6.6	72.6
#30	2.3	2	.1	49.2	20.8	6.5	79.2
#50	2.2	1.9		23.7	10.7	10.2	89.3
#100	2.1	1.7		3.7	2.7	8.0	97.3
LBW	1.9	1	.3	0.5	1.3	1.4	98.7

*Maximum % Retained must be above the 3/8" sieve.

*Any two adjacent sieves must equal 10% except max.,

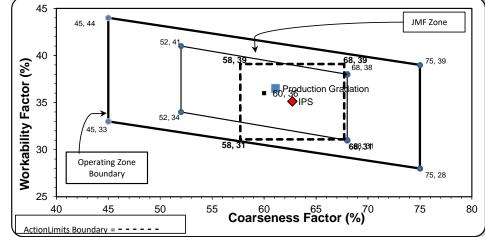
nom. max., #100 and #200 sieves.

*% 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 Grace	dations	 Aggregate SupplierGrada 	ations	Adjusted WF	Intial Production Sample (IPS	5)
	Coarseness Factor:	61		Workability Factor:	34	36.5	Coarseness Factor:	63
•	45 1						Workability Factor:	35
	40						O	0/



Sieve	Cumulative	%	Cumulative	
Sieve	% Passing	Retained	% Retained	
2"	100.0	0.0	0.0	
1.5"	100.0	0.0	0.0	
1"	100.0	0.0	0.0	
3/4"	95.1	4.9	4.9	
1/2"	74.6	20.5	25.4	
3/8"	59.3	15.3	40.7	
#4	42.1	17.2	57.9	
#8	35.1	7.1	64.9	
#16	29.2	5.9	70.8	
#30	21.9	7.3	78.1	
#50	9.6	12.4	90.4	
#100	2.4	7.2	97.6	
LBW	0.9	1.5	99.1	

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