**PLANT #:** P-101

Sample Date:

8/23/21 P1M Concrete Grade: 8/30/2021

MDOT No.:

Contractor:

Dates Test F	Represents:	8/24/2021	through	8/30/2021		
Agg. Class	Pit#	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	1070	6.54	2.62	34.9
IA	71-47	Presque Isle	800	4.89	2.62	26.1
2NS	75-051	Mid-Michigan	1200	7.23	2.66	39.1
		Total Wt	3070	18 67		100.0

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

Total Wt 3070		3070	18.67		100.0	< Verify this n	umber is 100%
Sieve	CA	I.	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	97.8	10	0.0	100.0	99.2	0.8	0.8
1"	49.1	10	100.0		82.3	17.0	17.7
3/4"	12.1	99.2		100.0	69.2	13.1	30.8
1/2"	3.2	82	82.4		61.7	7.5	38.3
3/8"	2.2	60	60.0		55.5	6.2	44.5
#4	1.8	13	13.3		42.9	12.6	57.1
#8	1.6	3	.4	82.5	33.7	9.2	66.3
#16	1.5	2	.0	65.8	26.8	6.9	73.2
#30	1.5	1	.8	49.4	20.3	6.5	79.7
#50	1.4	1	.7	24.2	10.4	9.9	89.6
#100	1.3	1	.6	5.7	3.1	7.3	96.9
LBW	1.2	1	.4	0.7	1.1	2.0	98.9

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

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

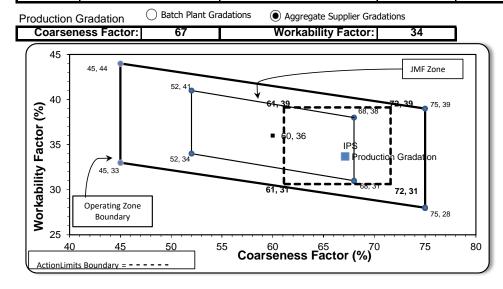
nom. max., #100 and #200 sieves.

\*% 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.



Initial Production Sample (IPS)

Coars	Coarseness Factor:		
Work	Workability Factor:		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	84.3	15.3	15.7
3/4"	74.8	9.6	25.2
1/2"	64.3	10.4	35.7
3/8"	56.8	7.5	43.2
#4	43.0	13.8	57.0
#8	34.9	8.1	65.1
#16	26.4	8.5	73.6
#30	19.9	6.5	80.1
#50	10.4	9.5	89.6
#100	3.4	7.0	96.6
LBW	1.2	2.2	98.8

PREPARED BY: SM, LLC Technical Service

PLANT #: P-102

Sample Date:

8/23/21 Concrete Grade: **P1M**8/24/2021 through 8/30/2021

	MDOT No.:
%	'

Dates Test F	Represents:	8/24/2021	through	8/30/2021		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	Stoneco	1420	8.46	2.69	45.5
IA	58-003	Stoneco	500	2.98	2.69	16.0
2NS	63-114	Highland	1200	7.26	2.65	38.5
		Total Wt	3120	18.70		100.0

5.5 5.0 5.5 ----- Verify

Contractor:

SUPERIOR MATERIALS

Superior Materials, LLC

30701 W. 10 Mile Rd. Suite 500

Farmington Hills, MI 48336

	Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	I.	A	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"	66.3	10	100.0		84.7	15.3	15.3
3/4"	46.1	10	100.0		75.5	9.2	24.5
1/2"	14.2	94	94.2		60.0	15.4	40.0
3/8"	5.6	83.2		100.0	54.3	5.7	45.7
#4	2.0	24.8		98.9	42.9	11.4	57.1
#8	1.8	6.7		83.6	34.0	8.9	66.0
#16	1.8	3.4		66.9	27.1	7.0	72.9
#30	1.6	2.2		49.0	19.9	7.2	80.1
#50	1.4	2	.0	23.5	10.0	9.9	90.0
#100	1.4	1	.8	5.9	3.2	6.8	96.8
LBW	1.2	1	.6	1.1	1.2	2.0	98.8

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

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

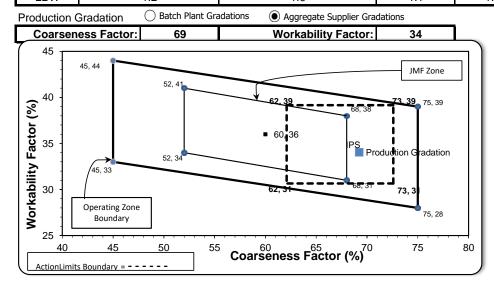
nom. max., #100 and #200 sieves.

 $^{\star}\%$  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.



Intial Production Sample (IPS)

Coars	Coarseness Factor:		
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

PREPARED BY: SM, LLC Technical Service

through

**PLANT #:** P-12

Sample Date:

8/23/21 P1M Concrete Grade: Dates Test Represents: 8/24/2021 8/30/2021

MDOT No.:

Contractor:

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	1020	6.24	2.62	33.2
IA	71-47	Presque Isle	800	4.89	2.62	26.1
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7
		Total Wt	3070	18.69		100.0

%	ł
tribution	
33.2	
26.1	
40.7	

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SUPERIOR MATERIALS	

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

	i otai Wt	3070	18.69		100.0	< Verify this n	umber is 100%
Sieve	CA	L	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	98.6	10	0.0	100.0	99.5	0.5	0.5
1"	42.2	10	0.0	100.0	80.8	18.7	19.2
3/4"	11.1	98	3.4	100.0	70.0	10.7	30.0
1/2"	4.1	73	3.1	100.0	61.1	8.9	38.9
3/8"	3.2	48	3.9	100.0	54.5	6.6	45.5
#4	2.6	10	).4	95.6	42.5	12.0	57.5
#8	2.2	4	.2	78.6	33.8	8.7	66.2
#16	2.0	2	.8	62.8	27.0	6.9	73.0
#30	1.9	2	.4	47.1	20.4	6.5	79.6
#50	1.7	2	.2	25.3	11.4	9.0	88.6
#100	1.5	2	.0	6.1	3.5	7.9	96.5
LBW	1.1	1	.3	0.8	1.0	2.5	99.0

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

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

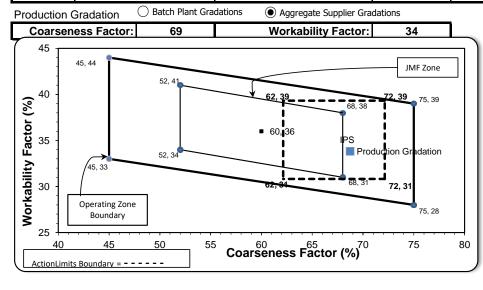
nom. max., #100 and #200 sieves.

\*% 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.



## Intial Production Sample (IPS)

Coarseness Factor:		67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.0	9.8	26.0
1/2"	63.7	10.3	36.3
3/8"	56.4	7.3	43.6
#4	43.0	13.4	57.0
#8	35.1	7.9	64.9
#16	29.0	6.1	71.0
#30	20.9	8.0	79.1
#50	8.1	12.8	91.9
#100	1.6	6.5	98.4
LBW	0.9	0.8	99.1

PREPARED BY: SM, LLC Technical Service

PLANT #: P-20

8/23/21 Concrete Crede: P1M

Sample Date: 8/23/21 Concrete Grade: P1M

Dates Test Represents: 8/24/2021 through 8/30/2021

Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	950	5.81	2.62	30.9
IA	71-47	Presque Isle	920	5.63	2.62	30.0
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1
		Total Wt	3070	18.70	_	100.0

Contractor:

MDOT No.:

nis number is 100%	SUPERIOR MATERIALS

---- Verify this number is 100%

Sup	erior N	Mater	ials,	LLC
3070	)1 W. 1	.0 Mile	Rd.	
Suite	500			
_				

Farmington Hills, MI 48336

Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	96.6	100.0	100.0	98.9	1.1	1.1
1"	44.7	100.0	100.0	82.9	16.1	17.1
3/4"	15.2	98.8	100.0	73.4	9.5	26.6
1/2"	4.3	84.2	100.0	65.7	7.7	34.3
3/8"	3.2	64.8	100.0	59.5	6.2	40.5
#4	2.4	20.2	97.9	45.1	14.4	54.9
#8	2.1	4.8	84.8	35.2	9.8	64.8 r
#16	2.0	3.0	68.9	28.4	6.8	71.6
#30	1.9	2.6	49.7	20.8	7.7	79.2 r
#50	1.8	2.4	19.1	8.7	12.1	91.3
#100	1.6	2.2	3.2	2.4	6.3	97.6
LBW	1.4	2.0	0.4	1.2	1.2	98.8

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

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

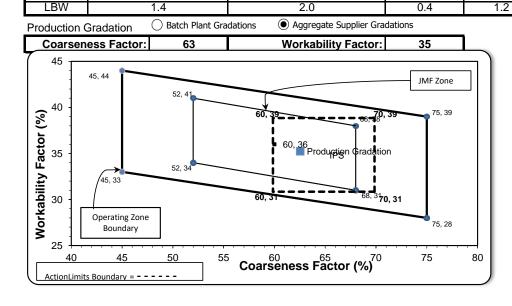
nom. max., #100 and #200 sieves.

\*% 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.



Intial Production Sample (IPS)

Coars	eness Factor:	65	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.1	0.9	0.9
1"	80.8	18.2	19.2
3/4"	71.3	9.6	28.7
1/2"	64.0	7.3	36.0
3/8"	57.7	6.2	42.3
#4	42.8	15.0	57.2
#8	34.8	7.9	65.2
#16	28.4	6.4	71.6
#30	20.2	8.2	79.8
#50	7.6	12.6	92.4
#100	1.6	6.0	98.4
LBW	1.0	0.6	99.0

PREPARED BY:
SM, LLC Technical Service

**PLANT #:** P-32 Sample Date: 8/23/21

P1M Concrete Grade:

8/24/2021 8/30/2021 through

MDOT No.:		

Dates Test Represents:		8/24/2021	through	8/30/2021		
Agg. Class	Pit#	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	950	5.81	2.62	30.9
IA	71-47	Presque Isle	870	5.32	2.62	28.3
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7
Total Wt			3070	18.69		100.0

Contractor:

SUPERIOR MATERIALS	

**Superior Materials, LLC** 30701 W. 10 Mile Rd. Suite 500

Farmington Hills, MI 48336

	Total Wt	3070	18.69		100.0	< Verify this no	umber is 100%
Sieve	CA	IA	<b>L</b>	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100	.0	100.0	100.0	0.0	0.0
1.5"	98.6	100	.0	100.0	99.6	0.4	0.4
1"	42.2	100	.0	100.0	82.1	17.5	17.9
3/4"	11.1	98.	4	100.0	72.0	10.1	28.0
1/2"	4.1	73.	.1	100.0	62.7	9.3	37.3
3/8"	3.2	48.	9	100.0	55.6	7.1	44.4
#4	2.6	10.	4	97.2	43.3	12.2	56.7
#8	2.2	4.2	2	82.3	35.4	7.9	64.6 r
#16	2.0	2.8	3	67.0	28.7	6.7	71.3
#30	1.9	2.4	4	48.4	21.0	7.7	79.0 r
#50	1.7	2.2	2	25.2	11.4	9.6	88.6
#100	1.5	2.0	)	5.2	3.1	8.3	96.9
LBW	1.1	1.3	3	0.9	1.1	2.1	98.9

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

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

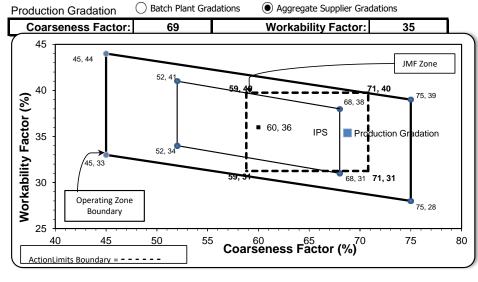
nom. max., #100 and #200 sieves.

\*% 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.



Intial Production Sample (IPS)

Coars	eness Factor:	65	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% 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

PLANT #: P-35 Sample Date:

8/23/21 P1M Concrete Grade:

_		
	MDOT	No

Contractor:

Dates Test F	Represents:	8/24/2021	through	8/30/2021		
Agg. Class	Pit#	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	58-003	Stoneco	1370	8.16	2.69	43.9
IA	58-003	Stoneco	550	3.28	2.69	17.6
2NS	81-093	Burmeister	1200	7.26	2.65	38.5
		Total Wt	3120	18.70		100.0

MAILI	IALS
Superior Mat	erials, LLC
30701 W. 10 N	1ile Rd.
Suite 500	
Farmington Hil	ls, MI 48336

	Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	L	A	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"	66.3	10	0.0	100.0	85.2	14.8	14.8
3/4"	46.1	10	0.0	100.0	76.3	8.9	23.7
1/2"	14.2	94	1.2	100.0	61.3	15.0	38.7
3/8"	5.6	83	3.2	100.0	55.6	5.7	44.4
#4	2.0	24	1.8	99.0	43.3	12.3	56.7
#8	1.8	6	.7	85.1	34.7	8.6	65.3
#16	1.8	3	.4	66.6	27.0	7.7	73.0
#30	1.6	2	.2	46.0	18.8	8.2	81.2
#50	1.4	2	.0	14.8	6.7	12.1	93.3
#100	1.4	1	.8	2.2	1.8	4.9	98.2
LBW	1.2	1	.6	0.7	1.1	0.7	98.9

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

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

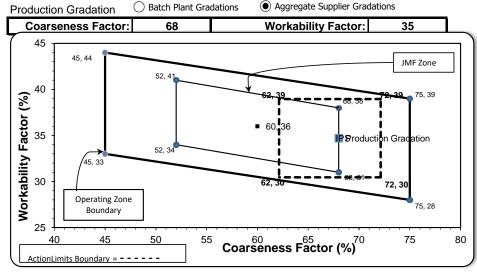
nom. max., #100 and #200 sieves.

\*% 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.



Intial Production Sample (IPS)

Coars	Coarseness Factor:		
Work	Workability Factor:		
Sieve	Cumulative		Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	86.9	13.1	13.1
3/4"	76.1	10.8	23.9
1/2"	63.7	12.4	36.3
3/8"	56.2	7.5	43.8
#4	43.2	13.0	56.8
#8	34.7	8.5	65.3
#16	27.5	7.2	72.5
#30	20.6	7.0	79.4
#50	9.0	11.6	91.0
#100	2.1	6.9	97.9
LBW	1.0	1.1	99.0

PREPARED BY: SM, LLC Technical Service

Total Wt

PLANT #: P-36 Contractor:
Sample Date: 8/23/21 Concrete Grade: P1M

Dates Test Represents: 8/24/2021 8/30/2021 through Specific % ft<sup>3</sup> Agg. Class Pit# Source Weight (SSD) Gravity Contribution CA 71-47 Presque Isle 920 5.63 2.62 30.0 IΑ 71-47 Presque Isle 950 5.81 2.62 30.9 2NS 63-92 Grange Hall 1200 7.26 2.65 39.1

3070

MDOT No.:



<---- Verify this number is 100%

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

						uiiiboi io 10070
Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	98.6	100.0	100.0	99.6	0.4	0.4
1"	42.2	100.0	100.0	82.7	16.9	17.3
3/4"	11.1	98.4	100.0	72.9	9.8	27.1
1/2"	4.1	73.1	100.0	62.9	9.9	37.1
3/8"	3.2	48.9	100.0	55.2	7.8	44.8
#4	2.6	10.4	97.9	42.3	12.9	57.7
#8	2.2	4.2	84.8	35.1	7.2	64.9
#16	2.0	2.8	68.9	28.4	6.7	71.6
#30	1.9	2.4	49.7	20.7	7.7	79.3
#50	1.7	2.2	19.1	8.7	12.1	91.3
#100	1.5	2.0	3.2	2.3	6.3	97.7
LBW	1.1	1.3	0.4	0.9	1.4	99.1

18.70

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

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

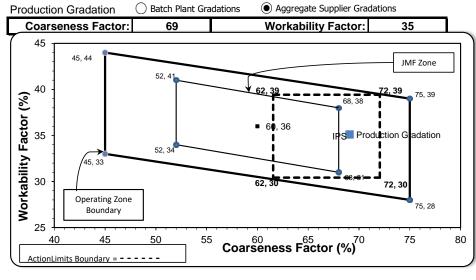
nom. max., #100 and #200 sieves.

 $^{\star}\%$  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.



Intial Production Sample (IPS)

Coars	Coarseness Factor:		
Work	Workability Factor:		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.0	15.0	15.0
3/4"	72.1	12.9	27.9
1/2"	64.5	7.6	35.5
3/8"	56.5	8.0	43.5
#4	42.7	13.8	57.3
#8	34.9	7.8	65.1
#16	29.0	5.9	71.0
#30	21.0	8.0	79.0
#50	8.2	12.8	91.8
#100	1.6	6.5	98.4
LBW	0.7	0.9	99.3

PREPARED BY: SM, LLC Technical Service

**PLANT #:** P-39

Sample Date: 8/23/21 Concrete Grade: Dates Test Represents: 8/24/2021 8/30/2021 through

Contractor:

P1M

Agg. Class	Pit#	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	1070	6.54	2.62	34.9
IA	71-47	Presque Isle	750	4.59	2.62	24.4
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	40.7
		Total Wt	3070	18.69		100.0

MDOT No.:

SUPERI	IOR ALS

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

	Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%
Sieve	CA	L	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	97.8	10	0.0	100.0	99.2	0.8	0.8
1"	49.1	10	0.0	100.0	82.3	17.0	17.7
3/4"	12.1	99	9.2	100.0	69.2	13.1	30.8
1/2"	3.2	82	2.4	100.0	62.0	7.2	38.0
3/8"	2.2	60	0.0	100.0	56.1	5.8	43.9
#4	1.8	13	3.3	97.2	43.5	12.7	56.5
#8	1.6	3	.4	77.2	32.8	10.6	67.2
#16	1.5	2	.0	59.0	25.0	7.8	75.0
#30	1.5	1	.8	43.0	18.5	6.6	81.5
#50	1.4	1.7		21.4	9.6	8.9	90.4
#100	1.3	1	.6	7.8	4.0	5.6	96.0
LBW	1.2	1	.4	1.2	1.2	2.8	98.8
•	O						

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

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

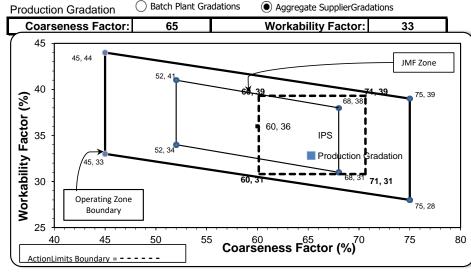
nom. max., #100 and #200 sieves.

\*% 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.



Intial Production Sample (IPS)

Coars	Coarseness Factor:		
Work	Workability Factor:		
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.1	9.8	25.9
1/2"	64.3	9.7	35.7
3/8"	57.5	6.8	42.5
#4	44.5	13.1	55.5
#8	35.1	9.4	64.9
#16	27.9	7.2	72.1
#30	21.7	6.2	78.3
#50	12.6	9.1	87.4
#100	3.5	9.1	96.5
LBW	1.2	2.4	98.8

PREPARED BY: SM, LLC Technical Service

PLANT #: P-02 Sample Date:

8/23/21 P1M Concrete Grade: 8/24/2021

		MDO

Dates Test Represents:		8/24/2021	through	8/30/2021		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	950	5.81	2.62	30.9
IA	71-47	Presque Isle	870	5.32	2.62	28.3
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7
		Total Wt	3070	18.69		100.0

MDOT No.:

Contractor:

SUPERIOR MATERIALS

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

	I otal Wt	3070	18.69		100.0	< Verify this n	umber 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"	98.6	100	.0	100.0	99.6	0.4	0.4
1"	42.2	100	.0	100.0	82.1	17.5	17.9
3/4"	11.1	98.	4	100.0	72.0	10.1	28.0
1/2"	4.1	73.	1	100.0	62.7	9.3	37.3
3/8"	3.2	48.	9	100.0	55.6	7.1	44.4
#4	2.6	10.	4	95.6	42.7	12.9	57.3
#8	2.2	4.2	2	78.6	33.9	8.8	66.1
#16	2.0	2.8	3	62.8	27.0	6.9	73.0
#30	1.9	2.4	ļ	47.1	20.4	6.5	79.6
#50	1.7	2.2	2	25.3	11.5	9.0	88.5
#100	1.5	2.0	)	6.1	3.5	7.9	96.5
LBW	1.1	1.3	3	0.8	1.0	2.5	99.0
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\*Maximum % Retained must be above the 3/8" sieve.

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

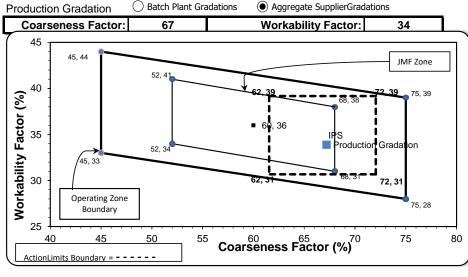
nom. max., #100 and #200 sieves.

\*% 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.



## Intial Production Sample (IPS)

Coarseness Factor:		67	
Workability Factor:		35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.0	15.0	15.0
3/4"	72.3	12.7	27.7
1/2"	64.5	7.8	35.5
3/8"	56.5	8.0	43.5
#4	42.7	13.8	57.3
#8	34.9	7.8	65.1
#16	29.0	5.9	71.0
#30	21.0	8.0	79.0
#50	8.2	12.8	91.8
#100	1.6	6.5	98.4
LBW	0.7	0.9	99.3

PREPARED BY: SM, LLC Technical Service