PLANT #: P-101

Sample Date:

8/30/21 P1M Concrete Grade: 8/31/2021

MDOT	No.
MDOT	NO.:

Contractor:

Dates Test F	Represents:	8/31/2021	through	9/6/2021		
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

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

Farmington Hills, MI 48336

	Total Wt	3070	18.67		100.0	< Verify this n	umber is 100%
Sieve	CA	1/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100	0.0	100.0	100.0	0.0	0.0
1.5"	97.0	100	0.0	100.0	99.0	1.0	1.0
1"	46.1	100	0.0	100.0	81.2	17.7	18.8
3/4"	10.3	99	).2	100.0	68.5	12.7	31.5
1/2"	3.2	82	2.4	100.0	61.7	6.9	38.3
3/8"	2.5	60	0.0	100.0	55.6	6.1	44.4
#4	2.0	13	3.3	99.2	42.9	12.7	57.1
#8	1.8	3.	.4	81.0	33.2	9.8	66.8
#16	1.7	2.	.0	64.3	26.2	6.9	73.8
#30	1.6	1.	.8	48.8	20.1	6.1	79.9
#50	1.6	1.	.7	25.7	11.0	9.1	89.0
#100	1.5	1.	.6	7.0	3.7	7.4	96.3
LBW	1.3	1.	.4	1.1	1.2	2.4	98.8

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

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

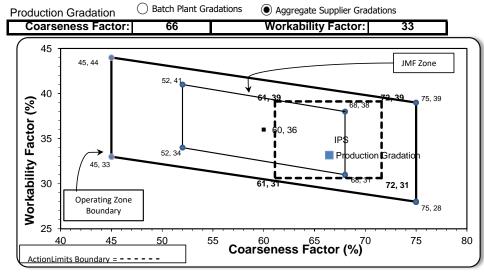
nom. max., #100 and #200 sieves.

\*% 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.



Initial Production Sample (IPS)

Coars	eness Factor:	66	
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"	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

CA

100.0

100.0

70.0

34.1

15.1

5.7

2.7

2.1

1.7

1.5

1.3

Sample Date:

Sieve

2"

1.5"

3/4"

1/2'

3/8'

#4

#8

#16

#30

#50

8/30/21 P<sub>1</sub>M Concrete Grade: 8/31/2021 9/6/2021

Contractor:
_

% Retained

0.0

0.0

13.7

16.3

9.5

6.6

11.2

8.5

7.1

7.2

10.6

6.6

1.6

Cumulative

% Passing

100.0

100.0

86.3

70.0

60.5

53.9

42.7

34.2

27.1

20.0

9.4

2NS

100.0

100.0

100.0

100.0

100.0

100.0

98.6

83.2

67.0

49.1

21.9

Dates Test F	Represents:	8/31/2021	through	9/6/2021		
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

IΑ

100.0

100.0

100.0

100.0

94.8

80.2

22.4

7.9

3.5

2.4

2.1

MDOT No.:

Cumulative

% Retained

0.0

0.0

13.7

30.0

39.5

46.1

57.3

65.8

72.9

80.0

90.6

97.3

98.8

---- Verify this number is 100%

SUPERIOR MATERIALS

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

Farmington Hills, MI 48336

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

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

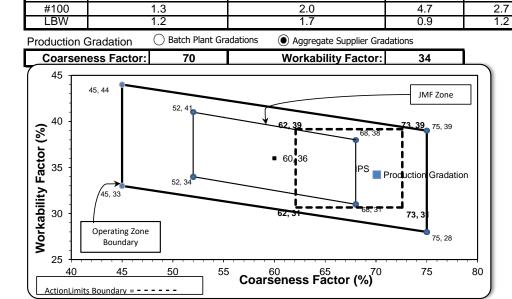
nom. max., #100 and #200 sieves.

\*% 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:	67	
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

**Total Wt** 

CA

100.0

93.2

36.6

9.2

1.6

1.4

1.4

1.2

1.2

1.2

1.1

1.0

PLANT #: P-12

Sample Date:

Agg. Class CA IΑ 2NS

Sieve

2"

1.5"

3/4"

1/2'

3/8'

#4

#8

#16

#30

#50

#100

8/30/21 P<sub>1</sub>M Concrete Grade: Dates Test Represents:

Contractor:

Cumulative

% Retained

0.0

2.3

21.1

30.5

36.8

43.1

55.9

65.6

72.9

79.4

88.0

96.4

8/31/2021 9/6/2021 through

3070

	0,0.,000.	un o a g	0/0/2021		
Pit#	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
71-47	Presque Isle	1020	6.24	2.62	33.2
71-47	Presque Isle	800	4.89	2.62	26.1
3-115	Ray Rd	1250	7.56	2.65	40.7

IΑ

100.0

100.0

100.0

98.8

84.2

60.4

18.2

7.7

4.0

3.1

2.6

2.2

18.69

MDOT No.:

<---- Verify this number is 100%

% Retained

0.0

2.3

18.8

9.4

6.3

6.3

12.8

9.7

7.4

6.5

8.7

8.3

2.6

100.0

Cumulative

% Passing

100.0

97.7

78.9

69.5

63.2

56.9

44.1

34.4

27.1

20.6

12.0

3.6

2NS

100.0

100.0

100.0

100.0

100.0

100.0

95.6

78.7

63.0

47.7

26.8

6.7

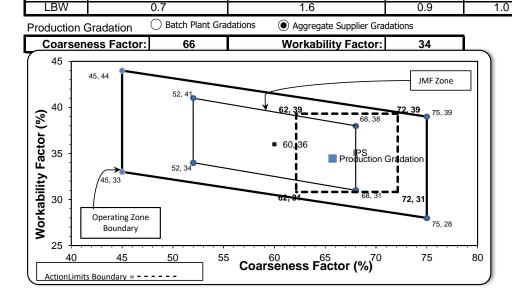
SUPERIOR	2

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

Farmington Hills, MI 48336

*Maximum %	Patainad	must he	ahove	the ?	2/8" cia	40

<sup>\*</sup>Any two adjacent sieves must equal 10% except max.,



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"	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

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

<sup>\*%</sup> Retained must be at least 4% for each sieve except max.,

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

<sup>\*%</sup> Retained must be at least 8% for the 1" sieve when

a 2" max. size (nom. Max. 1.5") aggregate is used

PLANT #: P-20
Sample Date: 8/30/21

Grange Hall

2NS

63-92

Concrete Grade: P1M

39.1

2.65

\_\_\_\_

**Dates Test Represents:** 8/31/2021 9/6/2021 through Specific % ft<sup>3</sup> Agg. Class Pit# Source Weight (SSD) Gravity Contribution CA 71-47 Presque Isle 950 5.81 2.62 30.9 IΑ 71-47 Presque Isle 920 5.63 2.62 30.0

1200

MDOT No.:

Contractor:

SUPERIOR

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

	i otai wt	3070	18.70		100.0	< Verify this n	umber is 100%
Sieve	CA	I,	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	10	0.0	100.0	100.0	0.0	0.0
1.5"	97.2	10	0.0	100.0	99.1	0.9	0.9
1"	39.9	10	0.0	100.0	81.4	17.7	18.6
3/4"	8.2	98	3.5	100.0	71.1	10.3	28.9
1/2"	2.4	83	3.7	100.0	64.9	6.2	35.1
3/8"	2.0	64	.1	100.0	58.9	6.0	41.1
#4	1.8	13	3.5	98.1	42.9	16.0	57.1
#8	1.6	4.	.0	85.5	35.1	7.8	64.9
#16	1.5	2	.6	70.6	28.8	6.3	71.2
#30	1.4	2	2	51.9	21.4	7.5	78.6
#50	1.4	2	.1	21.6	9.5	11.9	90.5
#100	1.2	1.	9	3.6	2.3	7.2	97.7
LBW	1.0	1.	.7	0.4	1.0	1.4	99.0

7.26

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

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

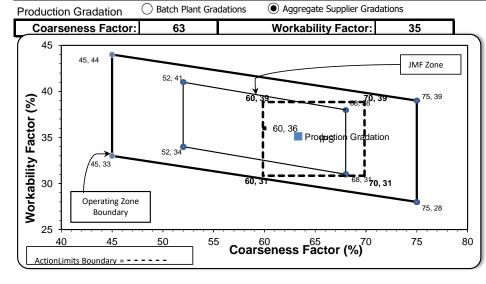
nom. max., #100 and #200 sieves.

\*% 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	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 8/30/21 Sample Date:

8/31/2021

CA

100.0

93.2

36.6

9.2

1.6

1.4

1.4

1.2

1.2

1.2

1.1

1.0

**Dates Test Represents:** 

Sieve

2"

1.5"

3/4"

1/2'

3/8'

#4

#8

#16

#30

#50

#100

P<sub>1</sub>M Concrete Grade:

2NS

100.0

100.0

100.0

100.0

100.0

100.0

97.1

85.9

69.3

49.5

22.5

5.9

Cumulative

% Passing

100.0

97.9

80.4

71.6

65.1

58.3

45.1

37.5

29.7

21.4

10.2

3.3

Contractor:

Cumulative

% Retained

0.0

2.1

19.6

28.4

34.9

41.7

54.9

62.5

70.3

78.6

89.8

96.7

MDOT No.:

% Retained

0.0

2.1

17.5

8.8

6.5

6.8

13.1

7.6

7.8

8.3

11.2

6.9

2.4

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

IΑ

100.0

100.0

100.0

98.8

84.2

60.4

18.2

7.7

4.0

3.1

2.6

2.2

through

	Weight (SSD)	ft <sup>3</sup>	Gravity	Contribution
sle	950	5.81	2.62	30.9
sle	870	5.32	2.62	28.3
ay	1250	7.56	2.65	40.7
Wt	3070	18.69		100.0

9/6/2021

<	Verify	this	number	is	100%

SUPER	HOR
SUPER	ALS

**Superior Materials, LLC** 

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

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

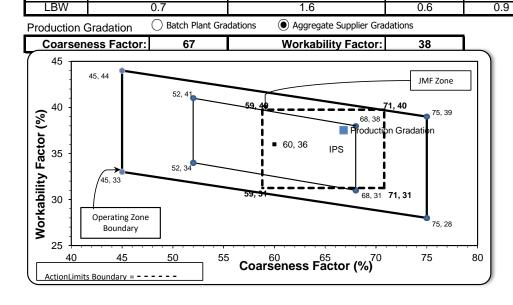
nom. max., #100 and #200 sieves.

\*% 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)

Coars	Coarseness Factor:		
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

**PLANT #:** P-35 Sample Date:

8/30/21 P1M Concrete Grade: 8/31/2021 9/6/2021 through

Contractor:	

MDOT No.:

Dates Test F	Represents:	8/31/2021	through	9/6/2021		
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

	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
	1370	8.16	2.69	43.9
	550	3.28	2.69	17.6
r	1200	7.26	2.65	38.5
Wt	3120	18.70		100.0

rify this number is 100%	SU

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

	i otai wt	3120	18.70		100.0	< Verity 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	ı
1.5"	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1"	70.0	10	100.0		86.8	13.2	13.2	1
3/4"	34.1	10	0.0	100.0	71.1	15.8	28.9	ı
1/2"	15.1	94	.8	100.0	61.8	9.3	38.2	1
3/8"	5.7	80	80.2		55.1	6.7	44.9	١,
#4	2.7	22	2.4	99.1	43.2	11.9	56.8	١,
#8	2.1	7	9	86.0	35.4	7.9	64.6	no
#16	1.7	3	5	68.0	27.5	7.9	72.5	١,
#30	1.5	2.4		47.1	19.2	8.3	80.8	no
#50	1.3	2.1		15.4	6.9	12.3	93.1	1
#100	1.3	2	.0	2.2	1.8	5.1	98.2	а

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

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

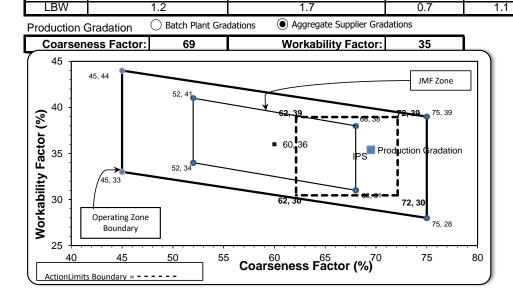
nom. max., #100 and #200 sieves.

\*% 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:	67	
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"	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

CA

100.0

93.2

36.6

9.2

1.6

1.4

1.4

1.2

1.2

1.2

1.1

1.0

Sieve

2"

1.5"

3/4"

1/2'

3/8'

#4

#8

#16

#30

#50

#100

PLANT #: P-36 Contractor: 8/30/21 P<sub>1</sub>M Sample Date: Concrete Grade:

2NS

100.0

100.0

100.0

100.0

100.0

100.0

98.1

85.5

70.6

51.9

21.6

3.6

Dates Test F	Represents:	8/31/2021	through	9/6/2021		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution
CA	71-47	Presque Isle	920	5.63	2.62	30.0
IA	71-47	Presque Isle	950	5.81	2.62	30.9
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1
		Total Wt	3070	18.70		100.0

IΑ

100.0

100.0

100.0

98.8

84.2

60.4

18.2

7.7

4.0

3.1

2.6

2.2

MDOT No.:

Cumulative

% Retained

0.0

2.0

19.0

27.6

34.4

41.8

55.6

63.8

70.8

78.4

90.4

97.6

---- Verify this number is 100%

% Retained

0.0

2.0

17.0

8.6

6.8

7.4

13.8

8.2

7.0

7.6

12.0

7.2

1.5

Cumulative

% Passing

100.0

98.0

81.0

72.4

65.6

58.2

44.4

36.2

29.2

21.6

9.6

2.4

SUPERIOR MATERIALS

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

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

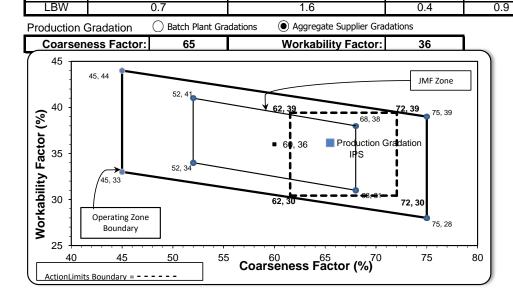
\*Any two adjacent sieves must equal 10% except max.,

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:	67	
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"	85.0	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

PLANT #: P-39

Sample Date: 8/30/21 P<sub>1</sub>M Concrete Grade: Dates Test Represents: 8/31/2021 9/6/2021 through

MDOT No.:

Contractor:

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



<---- Verify this number is 100%

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

Farmington Hills, MI 48336

	Total Tit	10100		100.0	< voing tho in	difficor 10 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"	97.0	100.0	100.0	99.0	1.0	1.0
1"	46.1	100.0	100.0	81.2	17.7	18.8
3/4"	10.3	99.2	100.0	68.5	12.7	31.5
1/2"	3.2	82.4	100.0	62.0	6.6	38.0
3/8"	2.5	60.0	100.0	56.2	5.7	43.8
#4	2.0	13.3	97.6	43.7	12.6	56.3
#8	1.8	3.4	79.8	33.9	9.7	66.1
#16	1.7	2.0	62.6	26.6	7.4	73.4
#30	1.6	1.8	46.3	19.8	6.7	80.2
#50	1.6	1.7	24.0	10.7	9.1	89.3
#100	1.5	1.6	7.9	4.1	6.6	95.9

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

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

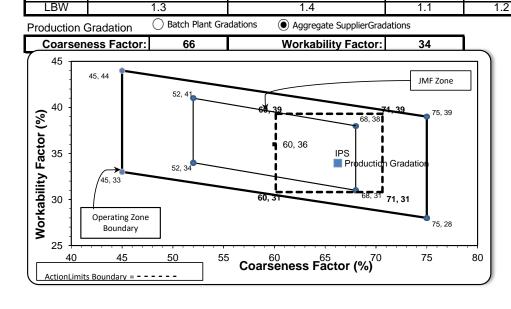
nom. max., #100 and #200 sieves.

\*% 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)

98.8

Coars	eness Factor:	65	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	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

8/31/2021

PLANT #: P-02 Sample Date: 8/30/21

Dates Test Represents:

P1M Concrete Grade:

Contractor:

9/6/2021 through

MDOT No.:

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

%	
ntribution	
30.9	
28.3	
40.7	



----- Verify this number is 100%

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

	i Otai Wi	3070	10.09		100.0	< verily 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"	93.2	10	0.0	100.0	97.9	2.1	2.1
1"	36.6	10	0.0	100.0	80.4	17.5	19.6
3/4"	9.2	98	3.8	100.0	71.6	8.8	28.4
1/2"	1.6	84	l.2	100.0	65.1	6.5	34.9
3/8"	1.4	60	).4	100.0	58.3	6.8	41.7
#4	1.4	18	3.2	95.6	44.5	13.8	55.5
#8	1.2	7	.7	78.7	34.6	9.9	65.4
#16	1.2	4	.0	63.0	27.2	7.4	72.8
#30	1.2	3	.1	47.7	20.7	6.5	79.3
#50	1.1	2	.6	26.8	12.0	8.7	88.0
#100	1.0	2	.2	6.7	3.7	8.3	96.3
I BW	0.7	1	6	0.9	1.0	26	99.0

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

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

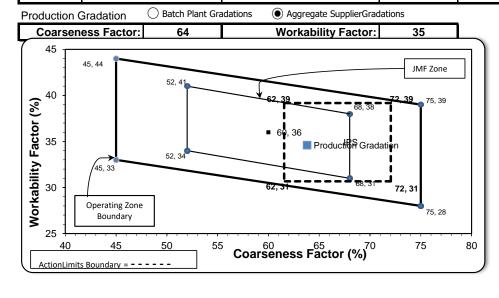
nom. max., #100 and #200 sieves.

\*% 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)

Coars	eness Factor:	67		
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"	85.0	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	
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#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