PLANT #: P-101

Sample Date:

LBW

12/4/23 Concrete Grade: S2M, 3500HP

18.57

Dates Test Represents:		12/5/2023	through	12/11/2023		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1600	9.79	2.62	52.4
26A	71-47	Presque Isle	225	1.38	2.62	7.4
2NS	75-051	Mid Michigan	1230	7.41	2.66	40.3

3055

Contractor:

MDOT No.:

100.0



<---- Verify this number is 100%

etained	Cumulative	Superior Materials, LLC			
ctanica	% Retained	30701 W. 10 Mile Rd.			
		Cta F00			

Suite 500 Farmington Hills, MI 48336

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"	100.0	100.0	100.0	100.0	0.0	0.0
3/4"	88.3	100.0	100.0	93.9	6.1	6.1
1/2"	43.8	96.8	100.0	70.3	23.5	29.7
3/8"	24.1	86.7	100.0	59.3	11.1	40.7
#4	2.8	20.2	96.4	41.8	17.5	58.2
#8	1.5	4.4	83.4	34.7	7.1	65.3 r
#16	1.3	2.2	68.8	28.5	6.1	71.5
#30	1.3	1.7	51.4	21.5	7.0	78.5 r
#50	1.3	1.5	25.7	11.1	10.4	88.9
#100	1.2	1.5	6.2	3.2	7.9	96.8

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

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

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

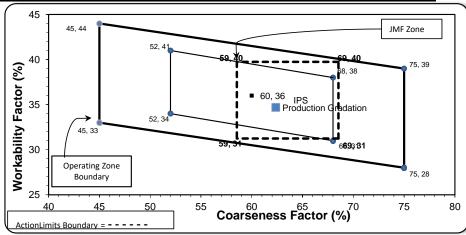
*% Retained must be at least 4% for each sieve except max.,

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

*% Retained must be at least 4% for the 3/4" sieve when

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

 Batch Plant Gradations Aggregate Supplier Gradations **Production Gradation** Coarseness Factor: 62 Workability Factor: 35



Initial Production Sample (IPS)

Coars	seness Factor:	64	
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"	100.0	0.0	0.0
3/4"	93.9	6.1	6.1
1/2"	71.4	22.5	28.6
3/8"	59.0	12.4	41.0
#4	45.1	13.9	54.9
#8	35.5	9.6	64.5
#16	28.3	7.2	71.7
#30	21.3	6.9	78.7
#50	11.0	10.3	89.0
#100	3.4	7.6	96.6
LBW	1.1	2.3	98.9

0.8

PLANT #: P-102

Sample Date:

LBW

12/4/23 Concrete Grade: S2M, 3500HP 12/11/2023

18.58

Dates Test F	Represents:	12/5/2023	through	12/11/2023		
Agg. Class	Pit#	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1550	9.23	2.69	50.0
26A	58-003	Stoneco	350	2.09	2.69	11.3
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7

3100

Contractor:

MDOT No.:

100.0

0.8



----- Verify this number is 100%

ained	Cumulative % Retained	Superior ivialerials, LLC
0	0.0	Suite 500
0	0.0	Farmington Hills, MI 48336

Cumulative 6AA 26A % Retai Sieve 2NS % Passing 2" 100.0 100.0 100.0 100.0 0.0 1.5" 100.0 100.0 100.0 100.0 0.0 0.0 100.0 100.0 100.0 100.0 0.0 0.0 3/4" 79.0 100.0 100.0 89.5 10.5 10.5 1/2' 38.5 98.2 100.0 69.0 20.5 31.0 3/8' 89.6 100.0 12.8 43.7 14.9 56.3 #4 2.4 10.4 98.6 40.5 15.7 59.5 #8 1.4 4.0 86.6 34.7 5.9 65.3 #16 1.3 2.6 69.0 27.7 7.0 72.3 #30 9.2 1.2 2.2 45.4 18.4 81.6 #50 1.1 2.0 15.2 6.7 11.8 93.3 #100 1.0 1.8 1.9 1.4 5.2 98.6

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

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

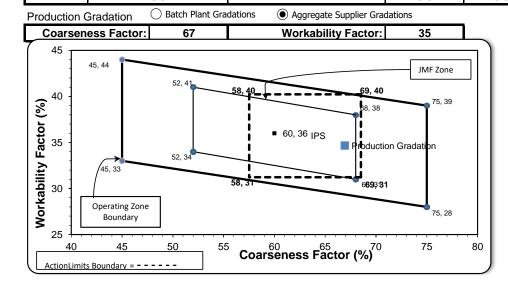
nom. max., #100 and #200 sieves.

*% 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.



Intial Production Sample (IPS)

99.2

0.6

Coars	eness Factor:	63	
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"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

PLANT #: 12

Sample Date:

12/4/23

Contractor:

MDOT No.:

Concrete Grade: S2M, 3500HP

Dates Test Represents: 12/5/2023 12/11/2023 through Specific % ft³ Agg. Class Pit# Source Weight (SSD) Gravity Contribution 6AA 71-47 Presque Isle 1550 9.48 2.62 50.8 26A 71-47 Presque Isle 270 1.65 2.62 8.9 2NS

63-115 Ray Rd 1230 7.44 2.65 40.3 10 F7

rify this number is 100%	SUMA

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

	i otai Wt	3050	18.57		100.0	< Verify this n	umber is 100%	
Sieve	6AA	26	A	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	ı
1"	97.3	10	100.0		98.6	1.4	1.4	ı
3/4"	78.2	100.0		100.0	88.9	9.7	11.1	ı
1/2"	34.5	95.2		100.0	66.3	22.6	33.7	ı
3/8"	17.5	84	84.8		56.7	9.6	43.3	ľ
#4	2.2	19	19.0		41.8	15.0	58.2	ľ
#8	1.4	3	6	81.4	33.9	7.9	66.1	n
#16	1.2	2	0	66.1	27.4	6.4	72.6	ľ
#30	1.1	1.7		50.4	21.0	6.4	79.0	n
#50	1.1	1.6		27.1	11.6	9.4	88.4	ı
#100	1.0	1.5		6.0	3.1	8.6	96.9	а
LBW	0.9	1.	3	1.2	1.1	2.0	98.9	ı

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

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

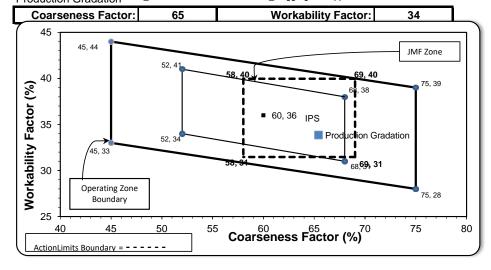
nom. max., #100 and #200 sieves.

*% 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.

 Batch Plant Gradations Aggregate Supplier Gradations **Production Gradation**



Intial Production Sample (IPS)

Coar	seness Factor:	64	
Wor	kability 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"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.2	12.1	40.8
#4	41.5	17.7	58.5
#8	35.7	5.8	64.3
#16	27.9	7.9	72.1
#30	18.3	9.5	81.7
#50	7.3	11.0	92.7
#100	2.0	5.3	98.0
LBW	0.9	1.1	99.1

PREPARED BY: SM, LLC Technical Service Approved By:

PLANT #: p11

Sample Date:

12/4/23 Concrete Grade: S2M, 3500HP

18.57

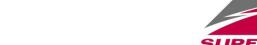
Dates Test F	Represents:	12/5/2023	through	12/11/2023		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1670	10.21	2.62	54.8
26A	71-47	Presque Isle	150	0.92	2.62	4.9
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3

3050

Contractor:

MDOT No.:

100.0



<---- Verify this number is 100%

ined	Cumulative % Retained	<u>Superior Materials, LLC</u> 30701 W. 10 Mile Rd.
)	0.0	Suite 500
)	0.0	Farmington Hills, MI 48336

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

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

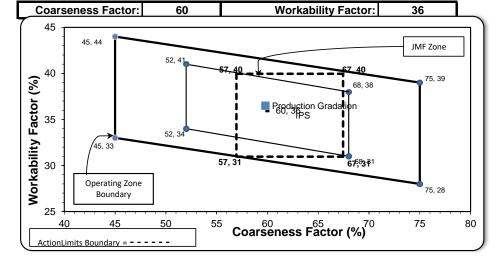
nom. max., #100 and #200 sieves.

*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.

*% Retained must be at least 4% for the 3/4" sieve when

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

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"	97.2	100.0	100.0	98.5	1.5	1.5		
3/4"	86.0	100.0	100.0	92.3	6.1	7.7		
1/2"	50.4	95.2	100.0	72.6	19.7	27.4		
3/8"	32.0	84.8	100.0	62.0	10.6	38.0		
#4	5.2	19.0	96.2	42.6	19.4	57.4		
#8	2.9	3.6	86.1	36.5	6.1	63.5		
#16	2.6	2.0	72.3	30.7	5.8	69.3		
#30	2.4	1.7	52.9	22.7	7.9	77.3		
#50	2.3	1.6	25.8	11.7	11.0	88.3		
#100	2.2	1.5	8.0	4.5	7.2	95.5		
LBW	1.8	1.3	1.7	1.7	2.8	98.3		
Production C	Production Gradation Batch Plant Gradations Aggregate Supplier Gradations Intial Production Sample (IPS)							



Intial Production Sample (IPS)

Coars	eness Factor:	62	
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"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PLANT #: P-32

Sample Date:

12/4/23 Concrete Grade: S2M, 3500HP

Dates Test F	represents:	12/3/2023	through	12/11/2023		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1670	10.21	2.62	54.8
26A	71-47	Presque Isle	150	0.92	2.62	4.9
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3

Contractor:

MDOT No.:



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

	i otai vvt	3030	16.57		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"	97.2	100.0)	100.0	98.5	1.5	1.5
3/4"	86.0	100.0)	100.0	92.3	6.1	7.7
1/2"	50.4	95.2		100.0	72.6	19.7	27.4
3/8"	32.0	84.8		100.0	62.0	10.6	38.0
#4	5.2	19.0		96.2	42.6	19.4	57.4
#8	2.9	3.6		86.1	36.5	6.1	63.5
#16	2.6	2.0		72.3	30.7	5.8	69.3
#30	2.4	1.7		52.9	22.7	7.9	77.3
#50	2.3	1.6		25.8	11.7	11.0	88.3
#100	2.2	1.5	_	8.0	4.5	7.2	95.5
LBW	1.8	1.3		1.7	1.7	2.8	98.3

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

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

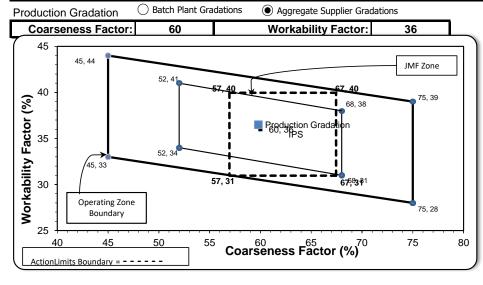
nom. max., #100 and #200 sieves.

*% 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.



Intial Production Sample (IPS)

Coars	eness Factor:	62	
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"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

PLANT #: P-35

Sample Date:

12/4/23 Concrete Grade: S2M, 3500HP

Dates Test F	Represents:	12/5/2023	through	12/11/2023		
Agg. Class		Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	58-003	Stoneco	1550	9.23	2.69	50.0
26A	58-003	Stoneco	350	2.09	2.69	11.3
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7
		Total Wt	3100	18.58		100.0

Contractor:

MDOT No.:



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

	Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%
Sieve	6AA	26	6 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"	100.0	10	0.0	100.0	100.0	0.0	0.0
3/4"	79.0	10	100.0		89.5	10.5	10.5
1/2"	38.5	98	3.2	100.0	69.0	20.5	31.0
3/8"	14.9	89	9.6	100.0	56.3	12.8	43.7
#4	2.4	10).4	98.6	40.5	15.7	59.5
#8	1.4	4	.0	86.6	34.7	5.9	65.3
#16	1.3	2	.6	69.0	27.7	7.0	72.3
#30	1.2	2	.2	45.4	18.4	9.2	81.6
#50	1.1	2.0		15.2	6.7	11.8	93.3
#100	1.0	1.8		1.9	1.4	5.2	98.6
LBW	0.8	1	.7	0.6	0.8	0.6	99.2

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

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

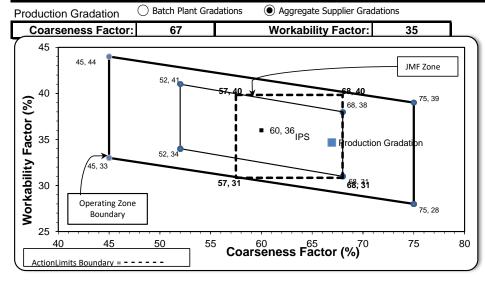
nom. max., #100 and #200 sieves.

*% 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.



Intial Production Sample (IPS)

Coars	eness Factor:	63	
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"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.4	11.9	40.6
#4	43.0	16.5	57.0
#8	35.3	7.6	64.7
#16	28.2	7.1	71.8
#30	21.6	6.6	78.4
#50	9.1	12.5	90.9
#100	1.7	7.4	98.3
LBW	1.1	0.6	98.9

PREPARED BY: SM, LLC Technical Service Approved By:

12/4/23

PLANT #: P-36

Sample Date:

Concrete Grade: S2M, 3500HP

Dates Test Represents: 12/5/2023 12/11/2023 through Specific % ft³ Agg. Class Pit# Source Weight (SSD) Gravity Contribution 6AA 71-47 Presque Isle 1500 9.17 49.2 2.62 26A 71-47 Presque Isle 350 2.14 2.62 11.5 2NS 63-92 Grange Hall 1200 7.26 2.65 39.3

Contractor:

MDOT No.:



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

	I otal Wt	3050	18.57		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"	97.3	10	0.0	100.0	98.7	1.3	1.3
3/4"	78.2	10	0.0	100.0	89.3	9.4	10.7
1/2"	34.5	95	5.2	100.0	67.2	22.0	32.8
3/8"	17.5	84	l.8	100.0	57.7	9.6	42.3
#4	2.2	19	0.0	97.2	41.5	16.2	58.5
#8	1.4	3.	.6	83.9	34.1	7.4	65.9
#16	1.2	2	.0	69.1	28.0	6.1	72.0
#30	1.1	1.	.7	49.9	20.4	7.6	79.6
#50	1.1	1.	.6	20.0	8.6	11.8	91.4
#100	1.0	1.	.5	3.5	2.0	6.6	98.0
LBW	0.9	1.	.3	0.8	0.9	1.1	99.1

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

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

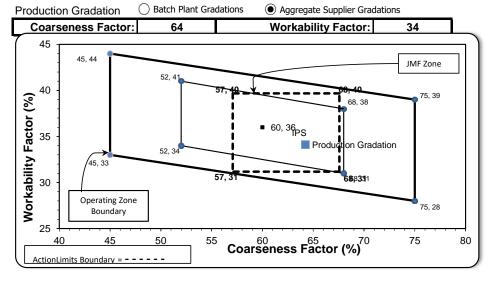
nom. max., #100 and #200 sieves.

*% 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.



Intial Production Sample (IPS)

Coars	eness Factor:	62	
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"	99.1	0.9	0.9
3/4"	90.5	8.6	9.5
1/2"	69.8	20.7	30.2
3/8"	59.8	10.0	40.2
#4	42.2	17.6	57.8
#8	35.4	6.7	64.6
#16	28.8	6.7	71.2
#30	21.4	7.4	78.6
#50	8.8	12.6	91.2
#100	1.8	7.0	98.2
LBW	0.7	1.0	99.3

PREPARED BY: SM, LLC Technical Service Approved By:

6AA

100.0

100.0

100.0

88.3

43.8

24.1

PLANT #: P-39

Sample Date:

Sieve

2"

1.5"

3/4"

1/2'

3/8'

12/4/23 Concrete Grade: S2M, 3500HP

18.57

ates Test Represents:		12/5/2023	tnrougn	12/11/2023		
gg. Class	Pit#	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1525	9.33	2.62	50.0
26A	71-47	Presque Isle	275	1.68	2.62	9.0
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	41.0

26A

100.0

100.0

100.0

100.0

96.8

86.7

3050

Contractor:

MDOT No.:

22.5

10.8

Cumulative

% Passing

100.0

100.0

100.0

94.2

71.6

60.9

2NS

100.0

100.0

100.0

100.0

100.0

100.0



---- Verify this number is 100%

etained	Cumulative % Retained	Superior Materials, LLC
$\cap \cap$	0.0	Suite 500

% Retained	Cumulative % Retained
0.0	0.0
0.0	0.0
0.0	0.0
5.8	5.8

28.4

39.1

56.0

64.6

71.7

79.7

90.4

97.4

99.2

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.

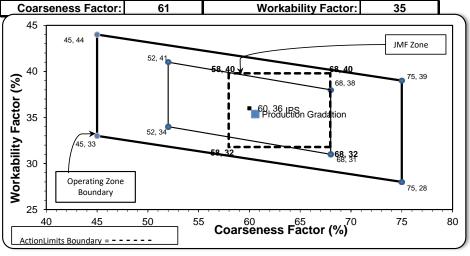
*% Retained must be at least 4% for each sieve except max.,

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

*% Retained must be at least 4% for the 3/4" sieve when

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

	#4	2.8	20.2	99.4	44.0	16.9
	#8	1.5	4.4	83.5	35.4	8.6
	#16	1.3	2.2	67.1	28.3	7.0
	#30	1.3	1.7	47.6	20.3	8.0
	#50	1.3	1.5	21.4	9.6	10.8
	#100	1.2	1.5	4.6	2.6	6.9
	LBW	1.1	1.3	0.3	0.8	1.8
Production Gradation						Intial Produ



Production Sample (IPS)

Coars	eness Factor:	63	
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"	100.0	0.0	0.0
3/4"	89.8	10.2	10.2
1/2"	70.7	19.1	29.3
3/8"	59.6	11.1	40.4
#4	43.2	16.4	56.8
#8	35.8	7.4	64.2
#16	29.2	6.6	70.8
#30	21.4	7.8	78.6
#50	9.8	11.6	90.2
#100	3.7	6.1	96.3
LBW	1.2	2.5	98.8

PLANT #: P-O2

Sample Date:

12/4/23 Concrete Grade: **S2M**, **3500HP**

18.57

Dates Test Represents:		12/5/2023	through	12/11/2023		
Agg. Class	Pit#	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution
6AA	71-47	Presque Isle	1550	9.48	2.62	50.8
26A	71-47	Presque Isle	270	1.65	2.62	8.9
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3

3050

Contractor:

MDOT No.:

100.0



----- Verify this number is 100%

ı	Cumulative % Retained	
	0.0	Suite 500
	0.0	Farmington Hills, MI 48336

Cumulative 6AA 26A % Retained Sieve 2NS % Passing 2" 100.0 100.0 100.0 100.0 0.0 1.5" 100.0 100.0 100.0 100.0 0.0 0.0 97.3 100.0 100.0 98.6 1.4 1.4 3/4" 78.2 100.0 100.0 88.9 9.7 11.1 1/2' 34.5 95.2 100.0 66.3 22.6 33.7 3/8' 84.8 100.0 43.3 17.5 56.7 9.6 #4 2.2 19.0 96.6 41.8 15.0 58.2 #8 1.4 3.6 81.4 33.9 7.9 66.1 #16 1.2 2.0 66.1 27.4 6.4 72.6 #30 50.4 21.0 79.0 1.1 1.7 6.4 #50 1.1 1.6 27.1 11.6 9.4 88.4 #100 1.0 1.5 6.0 3.1 8.6 96.9 LBW 0.9 1.1 2.0

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

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

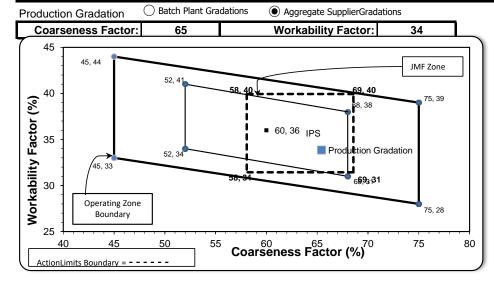
nom. max., #100 and #200 sieves.

*% Retained must be at least 4% for each sieve except max.,

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

*% Retained must be at least 4% for the 3/4" sieve when

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



Intial Production Sample (IPS)

Coars	eness Factor:	63	
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"	100.0	0.0	0.0
3/4"	95.6	4.4	4.4
1/2"	73.1	22.6	26.9
3/8"	59.3	13.8	40.7
#4	42.8	16.5	57.2
#8	35.7	7.1	64.3
#16	28.9	6.8	71.1
#30	20.7	8.2	79.3
#50	9.9	10.8	90.1
#100	2.1	7.8	97.9
LBW	0.9	1.2	99.1

PREPARED BY: SM, LLC Technical Service Approved By