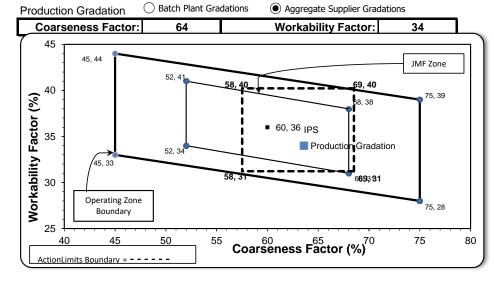
| PLANT :      | #:         | P-102     |              |                 |                     |                         | Contractor:     |                          |     |
|--------------|------------|-----------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|-----|
| Sample Date  |            | 9/13/21   |              |                 | Concrete Grade:     | S2M                     |                 |                          |     |
| Dates Test R | epresents: | 9/14/2021 | through      | 9/20/2021       |                     |                         | MDOT No.:       |                          |     |
| Agg. Class   | Pit #      | Source    | Weight (SSD) | ft <sup>3</sup> | Specific<br>Gravity | %<br>Contribution       |                 |                          |     |
| 6AA          | 58-003     | Stoneco   | 1600         | 9.53            | 2.69                | 51.6                    |                 |                          |     |
| 26A          | 58-003     | Stoneco   | 290          | 1.73            | 2.69                | 9.4                     |                 |                          |     |
| 2NS          | 63-114     | Highland  | 1210         | 7.32            | 2.65                | 39.0                    |                 |                          |     |
|              |            | Total Wt  | 3100         | 18.58           |                     | 100.0                   | < Verify this n | umber is 100%            | _   |
| Sieve        | e          | 6AA       | 26           | 6A              | 2NS                 | Cumulative<br>% Passing | % Retained      | Cumulative<br>% Retained |     |
| 2"           | 1          | 00.0      | 10           | 0.0             | 100.0               | 100.0                   | 0.0             | 0.0                      |     |
| 1.5"         | 1          | 00.0      | 10           | 0.0             | 100.0               | 100.0                   | 0.0             | 0.0                      |     |
| 1"           | 1          | 00.0      | 10           | 0.0             | 100.0               | 100.0                   | 0.0             | 0.0                      |     |
| 3/4"         | 8          | 35.9      | 10           | 0.0             | 100.0               | 92.7                    | 7.3             | 7.3                      | 1   |
| 1/2"         | 4          | 43.8      | 99           | 9.5             | 100.0               | 70.9                    | 21.8            | 29.1                     |     |
| 3/8"         |            | 21.6      | 83           | 3.9             | 100.0               | 58.0                    | 12.9            | 42.0                     | *N  |
| #4           |            | 3.9       | 13           | 3.3             | 98.4                | 41.7                    | 16.4            | 58.3                     | */  |
| #8           |            | 1.3       | 4            | .1              | 84.4                | 34.0                    | 7.7             | 66.0                     | nor |
| #16          |            | 1.1       | 2            | .8              | 68.4                | 27.5                    | 6.5             | 72.5                     | *0  |
| #30          |            | 1.0       | 2            | .3              | 48.6                | 19.7                    | 7.8             | 80.3                     | noi |
| #50          |            | 0.8       | 2            | .0              | 17.7                | 7.5                     | 12.2            | 92.5                     | *0  |
| #100         |            | 0.8       |              | .9              | 3.4                 | 1.9                     | 5.6             | 98.1                     | a 2 |
| LBW          |            | 0.6       | 1            | .7              | 0.7                 | 0.7                     | 1.2             | 99.3                     | 1   |



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



| Intial Product | ion Sample (IPS | 5)       | _          |
|----------------|-----------------|----------|------------|
| Coars          | seness Factor:  | 63       |            |
| Worl           | ability Factor: | 36       |            |
| Sieve          | Cumulative      | %        | Cumulative |
| Sleve          | % 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       |
|                |                 |          |            |

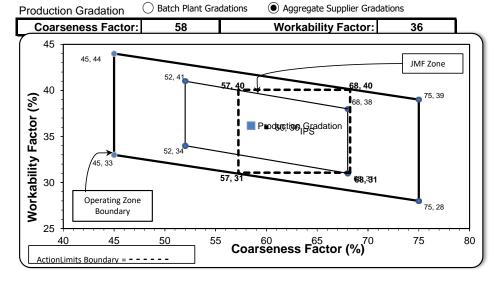
Approved By: Mart 1. Ball

| PLANT #      | <b>#:</b>  | P-20         |              |                 |                 |                         | Contractor:                  |                          |    |
|--------------|------------|--------------|--------------|-----------------|-----------------|-------------------------|------------------------------|--------------------------|----|
| Sample Date: | :          | 9/13/21      |              |                 | Concrete Grade: | S2M                     |                              |                          |    |
| Dates Test R | epresents: | 9/14/2021    | through      | 9/20/2021       |                 |                         | MDOT No.:                    |                          |    |
| Agg. Class   | Pit #      | Source       | Weight (SSD) | ft <sup>3</sup> | Specific        | %                       |                              |                          |    |
|              |            |              | • • •        |                 | Gravity         | Contribution            |                              |                          |    |
| 6AA          | 71-47      | Presque Isle | 1600         | 9.79            | 2.62            | 52.5                    |                              |                          |    |
| 26A          | 71-47      | Presque Isle | 200          | 1.22            | 2.62            | 6.6                     |                              |                          |    |
| 2NS          | 63-92      | Grange Hall  | 1250         | 7.56            | 2.65            | 41.0                    |                              |                          |    |
|              |            | Total Wt     | 3050         | 18.57           |                 | 100.0                   | < Verify this number is 100% |                          |    |
| Sieve        |            | 6AA          | 26           | A               | 2NS             | Cumulative<br>% Passing | % Retained                   | Cumulative<br>% Retained |    |
| 2"           | 1          | 00.0         | 100          | 0.0             | 100.0           | 100.0                   | 0.0                          | 0.0                      |    |
| 1.5"         | 1          | 00.0         | 100          | 0.0             | 100.0           | 100.0                   | 0.0                          | 0.0                      |    |
| 1"           | 9          | 99.4         | 10           | 0.0             | 100.0           | 99.7                    | 0.3                          | 0.3                      | 1  |
| 3/4"         | 1          | 89.7         | 10           | 0.0             | 100.0           | 94.6                    | 5.1                          | 5.4                      |    |
| 1/2"         |            | 52.9         | 96           | 5.9             | 100.0           | 75.1                    | 19.5                         | 24.9                     | 1  |
| 3/8"         | ;          | 30.8         | 84           | .3              | 100.0           | 62.7                    | 12.4                         | 37.3                     | ÷  |
| #4           |            | 6.2          | 16           | 6.0             | 97.9            | 44.4                    | 18.2                         | 55.6                     | *  |
| #8           |            | 2.4          | 4.           | .9              | 84.4            | 36.2                    | 8.3                          | 63.8                     | no |
| #16          |            | 1.7          | 2.           | .7              | 69.2            | 29.4                    | 6.7                          | 70.6                     | *  |
| #30          |            | 1.6          | 2.           | .2              | 49.5            | 21.3                    | 8.2                          | 78.7                     | nc |
| #50          |            | 1.5          | 2.           | .0              | 21.5            | 9.7                     | 11.5                         | 90.3                     | *  |
| #100         |            | 1.5          | 1.           | .9              | 3.3             | 2.3                     | 7.5                          | 97.7                     | а  |
| LBW          |            | 1.4          | 1.           | .7              | 0.5             | 1.1                     | 1.2                          | 98.9                     | 1  |



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



| Intial Product | ion Sample (IPS  | 5)          |              |
|----------------|------------------|-------------|--------------|
| Coar           | seness Factor:   | 63          |              |
| 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"             | 100.0            | 0.0         | 0.0          |
| 3/4"           | 93.3             | 6.7         | 6.7          |
| 1/2"           | 70.6             | 22.6        | 29.4         |
| 3/8"           | 59.6             | 11.0        | 40.4         |
| #4             | 43.9             | 15.7        | 56.1         |
| #8             | 35.6             | 8.4         | 64.4         |
| #16            | 28.4             | 7.2         | 71.6         |
| #30            | 19.4             | 9.0         | 80.6         |
| #50            | 7.5              | 11.9        | 92.5         |
| #100           | 0.9              | 6.6         | 99.1         |
| LBW            | 0.9              | 0.1         | 99.1         |
| #50<br>#100    | 7.5<br>0.9       | 11.9<br>6.6 | 92.5<br>99.1 |

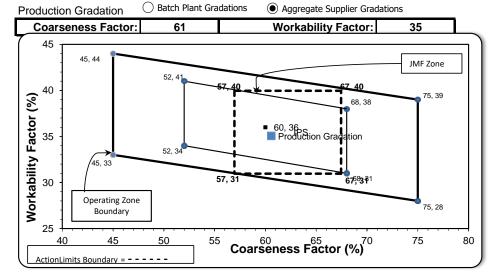
Approved By: Mart P. Ball

| PLANT #      | #:         | P-32         |              |                 |                     |                         | Contractor:     |                          |     |
|--------------|------------|--------------|--------------|-----------------|---------------------|-------------------------|-----------------|--------------------------|-----|
| Sample Date  | :          | 9/13/21      |              |                 | Concrete Grade:     | S2M                     |                 |                          |     |
| Dates Test R | epresents: | 9/14/2021    | through      | 9/20/2021       |                     |                         | MDOT No.:       |                          |     |
| Agg. Class   | Pit #      | Source       | Weight (SSD) | ft <sup>3</sup> | Specific<br>Gravity | %<br>Contribution       |                 |                          |     |
| 6AA          | 71-47      | Presque Isle | 1650         | 10.09           | 2.62                | 54.1                    |                 |                          |     |
| 26A          | 71-47      | Presque Isle | 170          | 1.04            | 2.62                | 5.6                     |                 |                          |     |
| 2NS          | 95-013     | Smelter Bay  | 1230         | 7.44            | 2.65                | 40.3                    |                 |                          |     |
|              |            | Total Wt     | 3050         | 18.57           |                     | 100.0                   | < Verify this n | umber is 100%            | _   |
| Sieve        |            | 6AA          | 26           | 6A              | 2NS                 | Cumulative<br>% Passing | % Retained      | Cumulative<br>% Retained |     |
| 2"           | 1          | 100.0        | 10           | 0.0             | 100.0               | 100.0                   | 0.0             | 0.0                      |     |
| 1.5"         | 1          | 100.0        | 10           | 0.0             | 100.0               | 100.0                   | 0.0             | 0.0                      |     |
| 1"           |            | 97.2         | 10           | 0.0             | 100.0               | 98.5                    | 1.5             | 1.5                      |     |
| 3/4"         |            | 86.3         | 10           | 0.0             | 100.0               | 92.6                    | 5.9             | 7.4                      | 1   |
| 1/2"         |            | 49.1         | 97           | 7.9             | 100.0               | 72.3                    | 20.2            | 27.7                     |     |
| 3/8"         | :          | 28.2         | 91           | .0              | 100.0               | 60.7                    | 11.7            | 39.3                     | *   |
| #4           |            | 5.7          | 28           | 3.6             | 95.2                | 43.1                    | 17.6            | 56.9                     | *   |
| #8           |            | 3.2          | 7.           | .5              | 81.6                | 35.1                    | 8.0             | 64.9                     | no  |
| #16          |            | 2.4          | 3            | .3              | 66.1                | 28.1                    | 6.9             | 71.9                     | *   |
| #30          |            | 2.3          | 2            | .5              | 48.2                | 20.8                    | 7.3             | 79.2                     | no  |
| #50          |            | 2.2          | 2            | .3              | 24.2                | 11.1                    | 9.7             | 88.9                     | *(  |
| #100         |            | 1.9          | 2            | .1              | 7.8                 | 4.3                     | 6.8             | 95.7                     | a 2 |
| LBW          |            | 1.5          | 1.           | .8              | 1.4                 | 1.5                     | 2.8             | 98.5                     | 1   |



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



| Intial Production Sample (IPS) |                 |          |            |  |  |  |  |  |
|--------------------------------|-----------------|----------|------------|--|--|--|--|--|
| Coars                          | seness 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       |  |  |  |  |  |

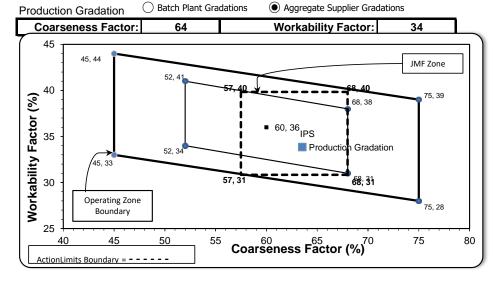
Approved By: Mart P. Ball

| PLANT #      | #:         | P-35       |              |                 |                 |                         | Contractor:     |                          |     |
|--------------|------------|------------|--------------|-----------------|-----------------|-------------------------|-----------------|--------------------------|-----|
| Sample Date  | :          | 9/13/21    |              |                 | Concrete Grade: | S2M                     |                 |                          |     |
| Dates Test R | epresents: | 9/14/2021  | through      | 9/20/2021       |                 |                         | MDOT No.:       |                          |     |
| Agg. Class   | Pit #      | Source     | Weight (SSD) | ft <sup>3</sup> | Specific        | %                       |                 |                          |     |
| Ayy. Class   | FIL#       | Source     | weight (SSD) | п               | Gravity         | Contribution            |                 |                          |     |
| 6AA          | 58-003     | Stoneco    | 1600         | 9.53            | 2.69            | 51.6                    |                 |                          |     |
| 26A          | 58-003     | Stoneco    | 300          | 1.79            | 2.69            | 9.7                     |                 |                          |     |
| 2NS          | 81-093     | Burmeister | 1200         | 7.26            | 2.65            | 38.7                    |                 |                          |     |
|              |            | Total Wt   | 3100         | 18.58           |                 | 100.0                   | < Verify this n | umber is 100%            | _   |
| Sieve        | (          | 6AA        | 26           | A               | 2NS             | Cumulative<br>% Passing | % Retained      | Cumulative<br>% Retained |     |
| 2"           | 1          | 00.0       | 100          | 0.0             | 100.0           | 100.0                   | 0.0             | 0.0                      | 1   |
| 1.5"         | 1          | 00.0       | 100          | 0.0             | 100.0           | 100.0                   | 0.0             | 0.0                      |     |
| 1"           | 1          | 00.0       | 100          | 0.0             | 100.0           | 100.0                   | 0.0             | 0.0                      |     |
| 3/4"         | 5          | 85.9       | 100          | 0.0             | 100.0           | 92.7                    | 7.3             | 7.3                      | 1   |
| 1/2"         | 4          | 43.8       | 99           | .5              | 100.0           | 70.9                    | 21.8            | 29.1                     | 1   |
| 3/8"         | 2          | 21.6       | 83           | .9              | 100.0           | 58.0                    | 13.0            | 42.0                     | *N  |
| #4           |            | 3.9        | 13           | .3              | 98.8            | 41.5                    | 16.4            | 58.5                     | *A  |
| #8           |            | 1.3        | 4.           | 1               | 84.7            | 33.9                    | 7.7             | 66.1                     | nor |
| #16          |            | 1.1        | 2.           | 8               | 66.9            | 26.7                    | 7.1             | 73.3                     | *9  |
| #30          |            | 1.0        | 2.           | 3               | 46.0            | 18.5                    | 8.2             | 81.5                     | nor |
| #50          |            | 0.8        | 2.           | 0               | 14.2            | 6.1                     | 12.4            | 93.9                     | *9  |
| #100         |            | 0.8        | 1.           | 9               | 1.9             | 1.3                     | 4.8             | 98.7                     | a 2 |
| LBW          |            | 0.6        | 1.           | 7               | 0.6             | 0.7                     | 0.6             | 99.3                     | 1   |



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



| Intial Product | ion Sample (IPS  | 5)       | _          |
|----------------|------------------|----------|------------|
| Coar           | seness Factor:   | 63       |            |
| Wor            | kability Factor: | 35       |            |
| Sieve          | Cumulative       | %        | Cumulative |
| Sleve          | % 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       |

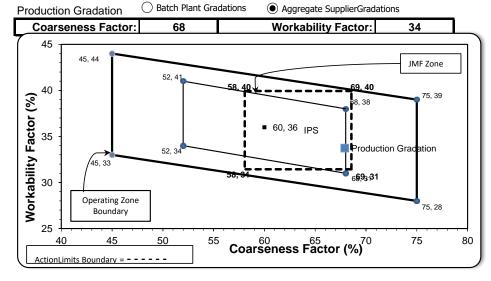
Approved By: Mart P. Ball

| PLANT #      | <b>#:</b>  | <b>P-O2</b>  |              |                 |                 |                         | Contractor:     |                          |     |
|--------------|------------|--------------|--------------|-----------------|-----------------|-------------------------|-----------------|--------------------------|-----|
| Sample Date  | :          | 9/13/21      |              |                 | Concrete Grade: | S2M                     |                 |                          |     |
| Dates Test R | epresents: | 9/14/2021    | through      | 9/20/2021       |                 |                         | MDOT No.:       |                          |     |
| Agg. Class   | Pit #      | Source       | Weight (SSD) | ft <sup>3</sup> | Specific        | %                       |                 |                          |     |
| Agg. Class   |            | Source       |              | -               | Gravity         | Contribution            |                 |                          |     |
| 6AA          | 71-47      | Presque Isle | 1550         | 9.48            | 2.62            | 50.8                    |                 |                          |     |
| 26A          | 71-47      | Presque Isle | 250          | 1.53            | 2.62            | 8.2                     |                 |                          |     |
| 2NS          | 63-115     | Ray Rd       | 1250         | 7.56            | 2.65            | 41.0                    |                 |                          |     |
|              |            | Total Wt     | 3050         | 18.57           |                 | 100.0                   | < Verify this n | umber is 100%            |     |
| Sieve        |            | 6AA          | 26           | A               | 2NS             | Cumulative<br>% Passing | % Retained      | Cumulative<br>% Retained |     |
| 2"           | 1          | 100.0        | 100          | 0.0             | 100.0           | 100.0                   | 0.0             | 0.0                      | 1   |
| 1.5"         | 1          | 100.0        | 100          | 0.0             | 100.0           | 100.0                   | 0.0             | 0.0                      |     |
| 1"           | 1          | 96.5         | 100          | 0.0             | 100.0           | 98.2                    | 1.8             | 1.8                      |     |
| 3/4"         |            | 69.2         | 100          | 0.0             | 100.0           | 84.3                    | 13.9            | 15.7                     | 1   |
| 1/2"         |            | 30.4         | 97           | .9              | 100.0           | 64.5                    | 19.9            | 35.5                     | 1   |
| 3/8"         |            | 12.9         | 91           | .0              | 100.0           | 55.0                    | 9.5             | 45.0                     | *N  |
| #4           |            | 3.1          | 28           | 6.6             | 95.1            | 42.9                    | 12.1            | 57.1                     | */  |
| #8           |            | 2.1          | 7.           | 5               | 78.2            | 33.7                    | 9.2             | 66.3                     | nor |
| #16          |            | 1.7          | 3.           | .3              | 62.9            | 26.9                    | 6.8             | 73.1                     | *9  |
| #30          |            | 1.4          | 2.           | .5              | 47.9            | 20.5                    | 6.4             | 79.5                     | nor |
| #50          |            | 1.4          | 2.           | .3              | 27.0            | 12.0                    | 8.6             | 88.0                     | *9  |
| #100         |            | 1.3          | 2.           | .1              | 7.0             | 3.7                     | 8.3             | 96.3                     | a 2 |
| LBW          |            | 1.0          | 1.           | .8              | 1.0             | 1.1                     | 2.6             | 98.9                     | 1   |



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



| Intial Product | ion Sample (IPS  | 5)       |            |
|----------------|------------------|----------|------------|
| Coar           | seness Factor:   | 63       |            |
| 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"             | 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       |

Approved By: Mart P. Ball