


# **APPENDIX P**

## ***Construction Noise Avoidance Alternative Calculation Worksheets***



To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, City of San Diego = **75**  
 allowable hours over which Leq is to be averaged = **12**

 = temporary barrier (TB) of input height inserted between source and receptor

| Construction Activity                  | Equipment            | Total Equipment Qty | AUF % (from FHWA RCNM) | Reference Lmax @ 50 ft. from FHWA RCNM | Client Equipment Description, Data Source and/or Notes | Source to NSR Distance (ft.) | Temporary Barrier Insertion Loss (dB) | Additional Noise Reduction | Distance-Adjusted Lmax | Allowable Operation Time (hours) | Allowable Operation Time (minutes) | Predicted 12-hour Leq | Source Elevation (ft) | Receiver Elevation (ft) | Barrier Height (ft) | Source to Barr. ("A") Horiz. (ft) | Rcvr. to Barr. ("B") Horiz. (ft) | Source to Rcvr. ("C") Horiz. (ft) | "A" (ft) | "B" (ft) | "C" (ft) | Path Length Diff. "P" (ft) | Abarr (dB) | Heff (with barrier) | Heff (wout barrier) | G (with barrier) | G (without barrier) | ILbarr (dB) |
|--|----------------------|---------------------|------------------------|--|--|------------------------------|---------------------------------------|----------------------------|------------------------|----------------------------------|------------------------------------|-----------------------|-----------------------|-------------------------|---------------------|-----------------------------------|----------------------------------|-----------------------------------|----------|----------|----------|----------------------------|------------|---------------------|---------------------|------------------|---------------------|-------------|
| Site Preparation                       | dozer                | 1                   | 40                     | 82                                     |  | 70                           | 0.1                                   |                            | 78.6                   | 2                                | 120                                | 67                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 1                   | 40                     | 78                                     |  | 70                           | 0.1                                   |                            | 74.6                   | 2                                | 120                                | 63                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | dozer                | 2                   | 40                     | 82                                     |  | 142                          | 0.1                                   |                            | 69.6                   | 12                               | 720                                | 69                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 3                   | 40                     | 78                                     |  | 142                          | 0.1                                   |                            | 65.6                   | 12                               | 720                                | 66                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
| Total for Site Preparation Phase:      |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
|  |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       | <b>73</b>             |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
| Grading                                | grader               | 1                   | 40                     | 85                                     |  | 70                           | 0.1                                   |                            | 81.6                   | 1                                | 60                                 | 67                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | dozer                | 1                   | 40                     | 82                                     |  | 70                           | 0.1                                   |                            | 78.6                   | 1                                | 60                                 | 64                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | excavator            | 1                   | 40                     | 81                                     |  | 70                           | 0.1                                   |                            | 77.6                   | 1                                | 60                                 | 63                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 1                   | 40                     | 78                                     |  | 70                           | 0.1                                   |                            | 74.6                   | 1                                | 60                                 | 60                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | scraper              | 1                   | 40                     | 84                                     |  | 70                           | 0.1                                   |                            | 80.6                   | 1                                | 60                                 | 66                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | grader               | 0                   | 40                     | 85                                     |  | 142                          | 0.1                                   |                            | 72.6                   | 11                               | 660                                | 0                     | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | dozer                | 0                   | 40                     | 82                                     |  | 142                          | 0.1                                   |                            | 69.6                   | 11                               | 660                                | 0                     | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | excavator            | 1                   | 40                     | 81                                     |  | 142                          | 0.1                                   |                            | 68.6                   | 12                               | 720                                | 65                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 3                   | 40                     | 78                                     |  | 142                          | 0.1                                   |                            | 65.6                   | 12                               | 720                                | 66                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | scraper              | 1                   | 40                     | 84                                     |  | 142                          | 0.1                                   |                            | 71.6                   | 12                               | 720                                | 68                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
| Total for Grading Phase:               |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
|  |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       | <b>74</b>             |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
| Building Erection                      | crane                | 1                   | 16                     | 81                                     |  | 70                           | 0.1                                   |                            | 77.6                   | 2                                | 120                                | 62                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | man lift             | 1                   | 20                     | 75                                     |  | 70                           | 0.1                                   |                            | 71.6                   | 2                                | 120                                | 57                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | generator            | 1                   | 50                     | 72                                     |  | 70                           | 0.1                                   |                            | 68.6                   | 2                                | 120                                | 58                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 1                   | 40                     | 78                                     |  | 70                           | 0.1                                   |                            | 74.6                   | 2                                | 120                                | 63                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | welder / torch       | 1                   | 40                     | 73                                     |  | 70                           | 0.1                                   |                            | 69.6                   | 2                                | 120                                | 58                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | crane                | 0                   | 16                     | 81                                     |  | 170                          | 0.1                                   |                            | 66.7                   | 10                               | 600                                | 0                     | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | man lift             | 2                   | 20                     | 75                                     |  | 170                          | 0.1                                   |                            | 60.7                   | 12                               | 720                                | 57                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | generator            | 0                   | 50                     | 72                                     |  | 170                          | 0.1                                   |                            | 57.7                   | 10                               | 600                                | 0                     | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 2                   | 40                     | 78                                     |  | 170                          | 0.1                                   |                            | 63.7                   | 12                               | 720                                | 63                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | welder / torch       | 0                   | 40                     | 73                                     |  | 170                          | 0.1                                   |                            | 58.7                   | 10                               | 600                                | 0                     | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
| Total for Building Erection Phase:     |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
|  |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       | <b>69</b>             |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
| Architectural Coating                  | compressor (air)     | 1                   | 40                     | 78                                     |  | 170                          | 0.1                                   |                            | 63.7                   | 12                               | 720                                | 60                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
| Total for Architectural Coating Phase: |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
|  |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       | <b>60</b>             |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
| Paving                                 | paver                | 1                   | 50                     | 77                                     |  | 70                           | 0.1                                   |                            | 73.6                   | 1.5                              | 90                                 | 62                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | roller               | 1                   | 20                     | 80                                     |  | 70                           | 0.1                                   |                            | 76.6                   | 1.5                              | 90                                 | 61                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | concrete mixer truck | 1                   | 40                     | 79                                     |  | 70                           | 0.1                                   |                            | 75.6                   | 1.5                              | 90                                 | 63                    | 5                     | 5                       | 0                   | 65                                | 5                                | 70                                | 65.2     | 7.1      | 70.0     | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | paver                | 1                   | 50                     | 77                                     |  | 142                          | 0.1                                   |                            | 64.6                   | 12                               | 720                                | 62                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
|  | roller               | 0                   | 20                     | 80                                     |  | 142                          | 0.1                                   |                            | 67.6                   | 10.5                             | 630                                | 0                     | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                 | 0.7              | 0.7                 | 0.1         |
| concrete mixer truck                   | 1                    | 40                  | 79                     |  | 142  | 0.1                          |                                       | 66.6                       | 12                     | 720                              | 63                                 | 5                     | 5                     | 0                       | 137                 | 5                                 | 142                              | 137.1                             | 7.1      | 142.0    | 0.00     | 0.1                        | 5.0        | 5.0                 | 0.7                 | 0.7              | 0.1                 |             |
| Total for Paving Phase:                |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |
|  |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       | <b>69</b>             |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                     |                  |                     |             |

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, City of San Diego = 75  
 allowable hours over which Leq is to be averaged = 12

= temporary barrier (TB) of input height inserted between source and receptor

| Construction Activity                  | Equipment            | Total Equipment Qty | AUF % (from FHWA RCNM) | Reference Lmax @ 50 ft. from FHWA RCNM | Client Equipment Description, Data Source and/or Notes | Source to NSR Distance (ft.) | Temporary Barrier Insertion Loss (dB) | Additional Noise Reduction | Distance-Adjusted Lmax | Allowable Operation Time (hours) | Allowable Operation Time (minutes) | Predicted 12-hour Leq | Source Elevation (ft) | Receiver Elevation (ft) | Barrier Height (ft) | Source to Barr. ("A") Horiz. (ft) | Rcvr. to Barr. ("B") Horiz. (ft) | Source to Rcvr. ("C") Horiz. (ft) | "A" (ft) | "B" (ft) | "C" (ft) | Path Length Diff. "P" (ft) | Abarr (dB) | Heff (with barrier) | Heff (w/out barrier) | G (with barrier) | G (without barrier) | ILbarr (dB) |
|--|----------------------|---------------------|------------------------|--|--|------------------------------|---------------------------------------|----------------------------|------------------------|----------------------------------|------------------------------------|-----------------------|-----------------------|-------------------------|---------------------|-----------------------------------|----------------------------------|-----------------------------------|----------|----------|----------|----------------------------|------------|---------------------|----------------------|------------------|---------------------|-------------|
| Site Preparation                       | dozer                | 3                   | 40                     | 82                                     |  | 142                          | 0.1                                   |                            | 69.6                   | 12                               | 720                                | 70                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 4                   | 40                     | 78                                     |  | 142                          | 0.1                                   |                            | 65.6                   | 12                               | 720                                | 68                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Site Preparation Phase:      |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      | <b>72.3</b>      |                     |             |
| Grading                                | grader               | 1                   | 40                     | 85                                     |  | 142                          | 0.1                                   |                            | 72.6                   | 12                               | 720                                | 69                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                | 1                   | 40                     | 82                                     |  | 142                          | 0.1                                   |                            | 69.6                   | 12                               | 720                                | 66                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator            | 2                   | 40                     | 81                                     |  | 142                          | 0.1                                   |                            | 68.6                   | 12                               | 720                                | 68                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 4                   | 40                     | 78                                     |  | 142                          | 0.1                                   |                            | 65.6                   | 12                               | 720                                | 68                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper              | 2                   | 40                     | 84                                     |  | 142                          | 0.1                                   |                            | 71.6                   | 12                               | 720                                | 71                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Grading Phase:               |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      | <b>75.3</b>      |                     |             |
| Building Erection                      | crane                | 1                   | 16                     | 81                                     |  | 170                          | 0.1                                   |                            | 66.7                   | 12                               | 720                                | 59                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift             | 3                   | 20                     | 75                                     |  | 170                          | 0.1                                   |                            | 60.7                   | 12                               | 720                                | 58                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | generator            | 1                   | 50                     | 72                                     |  | 170                          | 0.1                                   |                            | 57.7                   | 12                               | 720                                | 55                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe              | 3                   | 40                     | 78                                     |  | 170                          | 0.1                                   |                            | 63.7                   | 12                               | 720                                | 64                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | welder / torch       | 1                   | 40                     | 73                                     |  | 170                          | 0.1                                   |                            | 58.7                   | 12                               | 720                                | 55                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Building Erection Phase:     |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      | <b>66.8</b>      |                     |             |
| Architectural Coating                  | compressor (air)     | 1                   | 40                     | 78                                     |  | 170                          | 0.1                                   |                            | 63.7                   | 12                               | 720                                | 60                    | 5                     | 5                       | 0                   | 165                               | 5                                | 170                               | 165.1    | 7.1      | 170.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Architectural Coating Phase: |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      | <b>59.7</b>      |                     |             |
| Paving                                 | paver                | 2                   | 50                     | 77                                     |  | 142                          | 0.1                                   |                            | 64.6                   | 12                               | 720                                | 65                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller               | 1                   | 20                     | 80                                     |  | 142                          | 0.1                                   |                            | 67.6                   | 12                               | 720                                | 61                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | concrete mixer truck | 2                   | 40                     | 79                                     |  | 142                          | 0.1                                   |                            | 66.6                   | 12                               | 720                                | 66                    | 5                     | 5                       | 0                   | 137                               | 5                                | 142                               | 137.1    | 7.1      | 142.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Paving Phase:                |                      |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                       |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      | <b>68.9</b>      |                     |             |