

APPENDIX 5

**PENNDOT REGION 5
STORM INTENSITY-DURATION-FREQUENCY CHART
PDT-IDF**

| Storm Frequency⇒ | 2 Years | 5 Years | 10 Years | 25 Years | 50 Years | 100 Years |
|-------------------------|---|----------------|-----------------|-----------------|-----------------|------------------|
| Time (Minutes) | Rainfall Intensity (Inches per Hour) | | | | | |
| 5.0 | 4.63 | 5.40 | 6.02 | 6.70 | 7.51 | 8.19 |
| 6.0 | 4.34 | 5.15 | 5.70 | 6.39 | 7.22 | 7.90 |
| 7.0 | 4.12 | 4.95 | 5.42 | 6.10 | 6.95 | 7.62 |
| 8.0 | 3.92 | 4.70 | 5.17 | 5.85 | 6.70 | 7.36 |
| 9.0 | 3.75 | 4.50 | 4.95 | 5.62 | 6.47 | 7.12 |
| 10.0 | 3.59 | 4.30 | 4.75 | 5.41 | 6.26 | 6.90 |
| 11.0 | 3.45 | 4.15 | 4.58 | 5.22 | 6.07 | 6.70 |
| 12.0 | 3.32 | 4.00 | 4.42 | 5.05 | 5.88 | 6.50 |
| 13.0 | 3.21 | 3.85 | 4.27 | 4.89 | 5.71 | 6.33 |
| 14.0 | 3.10 | 3.70 | 4.16 | 4.74 | 5.56 | 6.16 |
| 15.0 | 3.00 | 3.55 | 4.00 | 4.60 | 5.40 | 6.00 |
| 20.0 | 2.60 | 3.10 | 3.50 | 4.03 | 4.78 | 5.34 |
| 25.0 | 2.31 | 2.65 | 3.15 | 3.61 | 4.30 | 4.83 |
| 30.0 | 2.09 | 2.45 | 2.82 | 3.27 | 3.92 | 4.41 |
| 40.0 | 1.76 | 2.05 | 2.39 | 2.78 | 3.34 | 3.79 |
| 50.0 | 1.53 | 1.77 | 2.08 | 2.42 | 2.92 | 3.33 |
| 60.0 | 1.35 | 1.60 | 1.85 | 2.15 | 2.60 | 2.98 |