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# Technical Report Documentation Page

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When writing the executive summary, please use past tense verbs.

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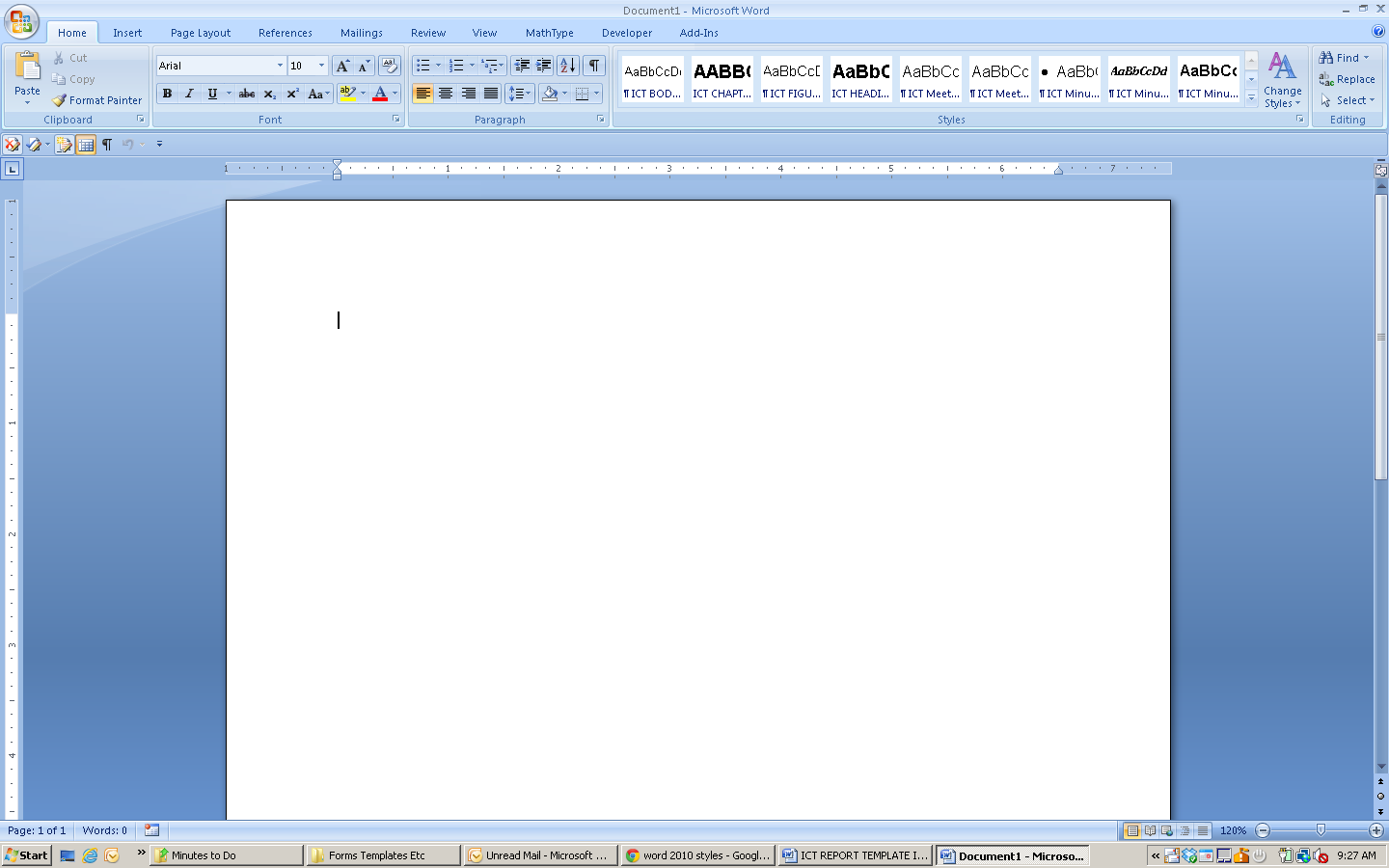
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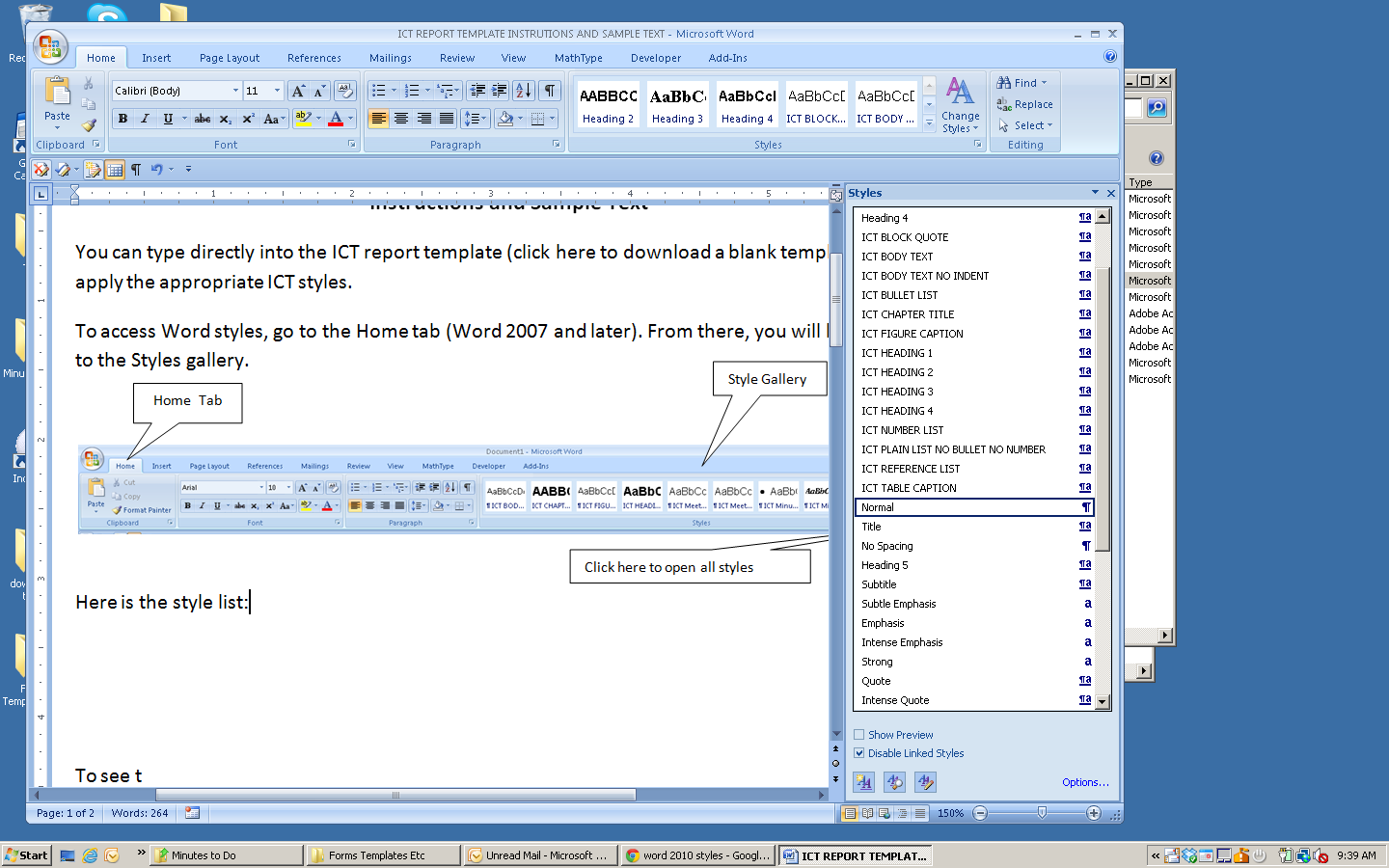
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CHAPTER 1: Introduction

SECTION TITLE [ICT HEADING 1]

Lorem ipsum dolor sit amet, an ius paulo doming, eu quo simul soluta. Vel ocurreret inciderint ad, no mundi periculis assueverit mei. Ad vel vidisse iuvaret, ut nam velit ludus. His ea dicunt ancillae hendrerit. Solet nominati quo ne, dicant accusamus consulatu vel te, has alia perfecto mnesarchum.

Nam dictas habemus propriae eu, est ad mutat solet cotidieque. Nam dolore deseruisse cu. No omnium postulant nec. Debet doctus vim ne.

Errem imperdiet usu ne, ei vel error iudicabit intellegat. Mea ne wisi eirmod, insolens platonem qui ea. Persius tibique quaestio sed ei, sed summo zril partem ne. Id mea esse paulo vulputate. Ad usu rebum dolor postea.

Subsection Title [ICT HEADING 2]

Modus ludus an per, sea delectus principes ut. Pro ea duis labores veritus, ut est etiam bonorum volutpat. Populo mediocrem eu ius. Pro cu tantas eligendi, malis theophrastus duo eu. Mei id novum noluisse moderatius, usu in dolore pericula. Paulo intellegat pro ut, cu cum alia theophrastus.

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Sub-Subsection Title [ICT HEADING 3]

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Sub-Sub-Subsection Title [ICT HEADING 4]

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Chapter 2: Formatting Figures

Each figure should be separate and should have its own figure number and caption. The basic requirements to create Section 508 compliant figures are listed below:

* Do not include sub-numbers (1-1, 1.2, etc.) with figures.
* Number figures consecutively throughout the report and appendices, not per chapter.
* Provide [alternative text](https://www.fhwa.dot.gov/publications/research/general/15058/004.cfm) that describes the information conveyed in the figure. To add alternative text, right click on the figure and select “Edit Alt Text.”
* Include a description of the image type (photo, graph, equation, chart, diagram, illustration).
* Avoid composite figures with multiple captions (See Figure 4).

This photo shows the top of the concrete precast deck of beam 4F1 after grouting the specimen in place. Six shear pockets can be seen in the deck; each is filled with fresh grout, and the shear studs are not visible. The concrete deck has lifting hooks in it. The beam is in a load testing frame inside a structural testing lab. A steel column and one of the actuators used for testing are visible.

Figure 1. Photo. After grouting large-scale beam specimen 4F1.

Source: Provines, et al., 2019

This figure plots area under the curve (AUC) on the y-axis (range 0.5 to 1) versus seconds on the x-axis (range 17 to 21). The solid line is extended, the dashed line is predicted, and the dash-dot line is vector autoregression model. From 17 through 19 seconds, values for all lines are just over 0.65. From 19 through 21 seconds, the predicted and VAR lines are very similar, staying near 0.65 until increasing to just over 0.7 at 21 seconds. The extended line increases to 0.7 at 20 seconds and 0.85 at 21 seconds.

Figure 2. Graph. AUC profile of reference (original data), predicted (ARMA) method, and   
VAR method.

Source: Flannagan et al., 2019



A. Transverse cracking in a concrete bridge.



B. Transverse cracking in a steel girder bridge.

Figure 3. Photo. Transverse cracking in a concrete bridge and steel girder bridge.

Source: ICT, 2020

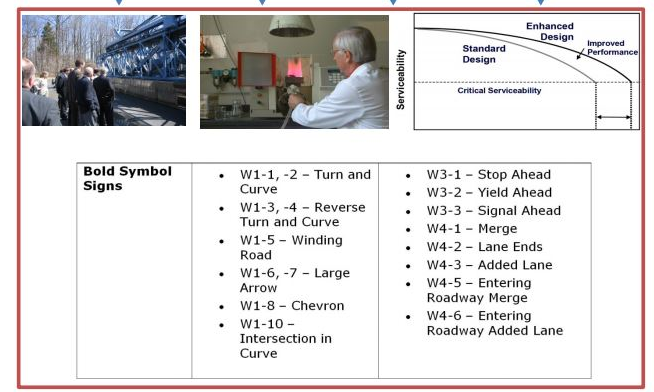


Figure 4. Multiple elements. Example of a Section 508 noncompliant composite figure.

Source: FHWA, 2017

Chapter 3: Formatting Equations

The basic requirements to create Section 508 compliant equations are listed below:

* Label equations as figures.
* Format equations as .jpg files. Note that not all computers and operating systems can interpret special math and scientific fonts.
* Provide [alternative text](https://www.fhwa.dot.gov/publications/research/general/15058/004.cfm?#_Toc474772831) with equations.

Open parenthesis y minus mu subscript 2 divided by 3 sigma subscript 2 close parenthesis squared plus open parenthesis z minus mu subscript 3 divided by 3 sigma subscript 3 close parenthesis equals 1.

Figure 5. Equation. Simplified equation for two-dimensional ellipsoid to represent the second and third PCs.

Source: Flannagan et al., 2019

Chapter 4: Formatting Tables

The basic requirements to create Section 508 compliant tables are listed below:

* Create tables using the built-in feature in Microsoft Word. Do not include pictures of tables.
* Do not include sub-numbers (1-1, 1.2, etc.).
* Consecutively number tables throughout the report and appendices, not per chapter.
* Avoid using complex tables with merged and/or split cells (see Table 2).

Table 1. Mix Designs

|  | **Control Mix** | **Type K Mix** |
| --- | --- | --- |
| Water\* | 267 | 286 |
| Type I Cement\* | 608 | 455 |
| Type K | — | 90 |
| Fine Aggregate\* | 1129 | 1069 |
| Coarse Aggregate\* | 1825 | 1831 |
| W/C Ratio | 0.44 | 0.52 |

\* Quantities are in lb/yd3 (1 lb/yd3 = 0.59 kg/m3)



Table 2. 508 Noncompliant Table—Complex Table Using Merged Cells

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Assigned Projects | | | | | | Future Projects | |
| Division A | | | Division B | | | Funded | Pending |
| Initiated Pending / Ongoing | | Completed | Initiated Pending / Ongoing | | Completed |
| 1 | 3 | 8 | 2 | 2 | 8 | 8 | 2 |

References

An example reference list is demonstrated below using the APA citation style. **You are not required to follow this exact formatting style for references**. However, you must be consistent in how you format each type of reference in terms of author names, year, date of publication, title, city of publication, etc.

American Psychological Association. (2020). *Reference examples*. Retrieved January 30, 2020, from, <https://apastyle.apa.org/style-grammar-guidelines/references/examples>

Amirkhanian, S. (2020). Utilization of scrap plastics in asphalt binders. In F. S. Pacheco-Torgal, S. Amirkhanian, H. Wang, & E. Schlangen (Eds.), *Eco-efficient pavement construction materials* (pp. 13–32). Woodhead Publishing. <https://doi.org/10.1016/B978-0-12-818981-8.00002-3>

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\_Toc474772847](https://www.fhwa.dot.gov/publications/research/general/15058/005.cfm?#_Toc474772847)

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