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## **TXDOT ENGINEERING SOFTWARE SUPPORT INFORMATION**

***TxDOT Bent Cap Analysis Program (CAP18)***

This document provides end-user support information for the TxDOT Bent Cap Analysis (CAP18) application. This support information will be updated, as needed, to remain current.

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## **ABOUT CAP18**

CAP18 is structural analysis program that is used to analyze bridge bent caps. The program utilizes a discrete element model that produces envelopes of maximum bending and shear forces acting on bridge bent caps. Analytical results are for working stress and/or load factor design in accordance with the AASHTO LRFD Bridge Design Specifications or the AASHTO Standard Specifications for Highway Bridges. User input live loads are automatically placed within user defined lanes to generate maximum forces at user specified points. A table of maximum reactions of each beam/girder/stringer with concomitant reactions at all other beam/girder/stringers is optionally reported.

## GENERAL SUPPORT INFORMATION

**Product Name:** TxDOT Bent Cap Analysis Program (CAP18)

**Current Release:** Version 6.2.2

### Technical Support

The TxDOT Bridge Division provides technical support for this product (see Contact Information section).

Non-TxDOT users may request technical support when this product is used to perform services for department.

### Reporting Problems

Users are encouraged to report problems that they experience using this product.

### Contact Information

To request technical support or to report problems contact:

Texas Department of Transportation  
Bridge Division  
Timothy E. Bradberry, P.E.  
E-Mail: tbradber@dot.state.tx.us  
Phone: 512-416-2179

### Release History and Support Status

Version	Release Date	Support Status
6.2.2	October 2011	Supported
6.1.0	March 2008	Supported
6.00	March 2006	Not Supported

### How to Determine the Version Number

#### Version 6.00

The CAP18 program file for the Version 6.00 distribution is named *cap18v6.exe*. Run the program to determine the version number for this release. When the program starts a console window will open and display the program banner as show in Figure 1. The banner reports the version number 6.00.

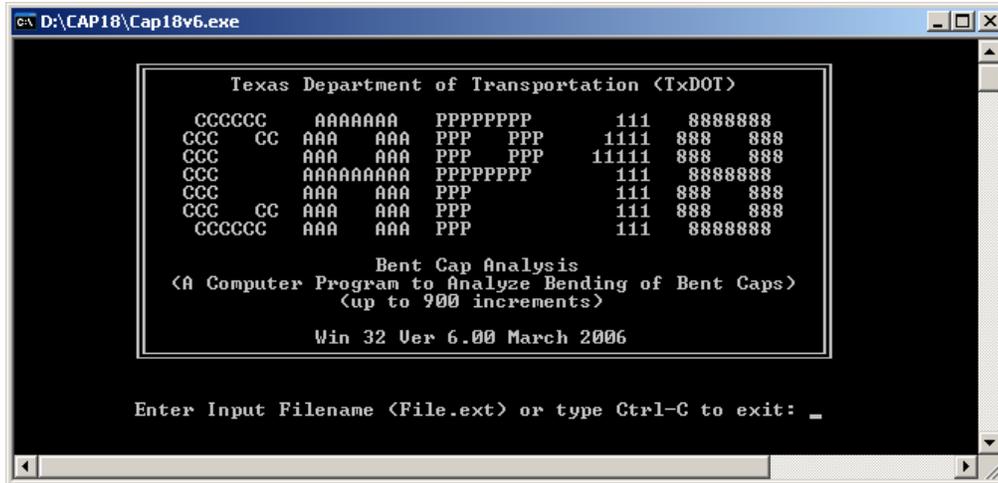


Figure 1 - Version 6.00 Program Banner

### Version 6.1.1

The following two methods may be used to determine the program version number for release 6.1.1:

#### Method 1 – Command Line

1. Open a Command Prompt window. One way to do this is to select *Start>Run>Open: cmd*
2. Using the command window, issue the *cap18* command with either the *-v* (lowercase) or *-V* (uppercase) switch as follows to instruct the program to report version information:

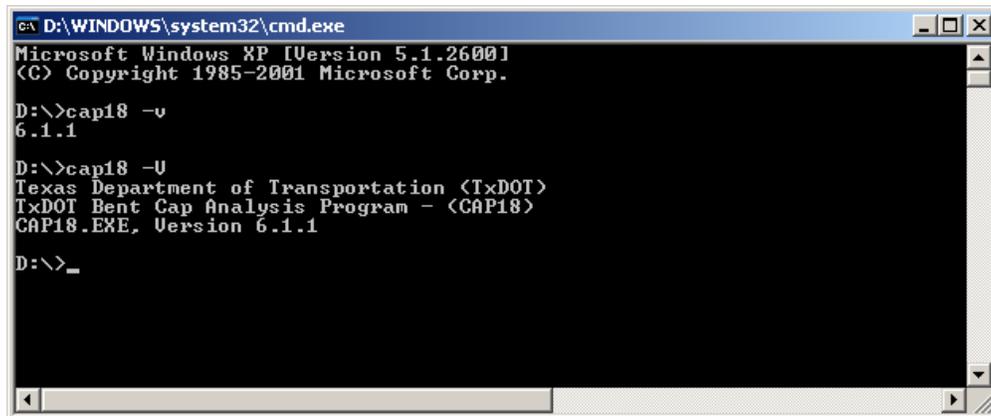


Figure 2 - Using Command Line Method to Determining Version Number

#### Method 2 – Add or Remove Programs Applet

1. Start the Windows Control Panel *Add or Remove Programs* applet.
2. Select the *TxDOT Bent Cap Analysis Program (CAP18)* product.
3. Select the *Click here for support information* link to display support information, including the program version number.

### Version 6.2.2

The same two methods shown for determining the program version number for release 6.1.1 may be used to determine the program version number for release 6.2.2:

## VERSION 6.2.2

### Status

CAP18 Version 6.2.2 is the current production release.

### Known Problems

In the *Example\_File\_List.txt* file, the 10<sup>th</sup> heading of the Input Data Files listing is labeled “Table 5A” when it should be labeled “Table SRS.” Attached is a corrected version of this file, for users’ information.

## VERSION 6.1.1

### Status

CAP18 Version 6.1.1 was superseded by Version 6.2.2 in October 2011. **Version 6.1.1 is supported; however, users are encouraged to switch the current release.**

### Known Problems

There are no known problems associated with this release.

## VERSION 6.00

### Status

CAP18 Version 6.00 was superseded by Version 6.1.1 in March 2008. **Version 6.00 is no longer supported.**

### Known Problems

There are no known problems associated with this release.