

LEAP Bridge Concrete CONNECT Edition V20 Update 2 (Nov. 30, 2020)

Version	V20.02.00.17
Operating Systems	Windows 7 x64, Windows 8 x64, Windows 10 x64
Language	English

Before you begin, please note the following:

- Review the End-User License Agreement (or EULA) carefully during the installation of LEAP Bridge. By installing this release, you agree to the terms and conditions of the agreement. A copy of the End User License Agreement named EULA.pdf will be included in the "\\LEAP Bridge Concrete\\eula.pdf" folder of the product installation. By default, this location is "C:\\Program Files\\Bentley\\LEAP Bridge Concrete."
- Before installing LEAP Bridge, be sure to fully read this document as well as the Installer Note where you can find critical information important to your installation.

This document contains the following information:

- What is New & Changed?
- Installer Notes
- Support and Services Information
- Using the Online Help

What is New & Changed?

LEAP Bridge Concrete (LBC) CONNECT Edition is the consolidated version of all LEAP standalone products including CONSPAN, CONBOX, RC-PIER, GEOMATH, and CONSPLICE. It incorporates Bentley CONNECT which helps you produce better designs by facilitating collaboration, interoperability, standardization and skills development. For an organization and enterprise, CONNECT provides greater insight and control over project design, deliverables and the people working on them. To learn how CONNECT will benefit you and your projects, please read this (<http://bit.ly/CONNECT-Overview>). Please note that the LEAP Bridge Concrete files are not backward compatible. Once they are opened and saved in newer versions, they cannot be opened in older versions.

CONNECT Licensing

This product version utilizes CONNECT Licensing, which is not supported by SELECT activation key(s).

CONNECT Licensing

(https://communities.bentley.com/products/licensing/w/licensing_wiki/37813/connect-licensing)

features new behavior to enhance your organization's user administration and security with mandatory user sign-in via CONNECTION Client to access the application. If you are already signed in to the CONNECTION Client, you have met this prerequisite. If you have not, please refer to the [Administrator's Resource Center](https://www.bentley.com/en/perspectives-and-viewpoints/topics/campaign/bentley-user-registration) (<https://www.bentley.com/en/perspectives-and-viewpoints/topics/campaign/bentley-user-registration>) and/or contact your administrator for assistance in the registration and sign-in process. For more information about working with the Update service, visit the [Update Infrastructure SharePoint](https://bentley.sharepoint.com/sites/MSPP/_layouts/15/start.aspx#/SitePages/Update%20InfrastructureSharePoint) (https://bentley.sharepoint.com/sites/MSPP/_layouts/15/start.aspx#/SitePages/Update%20InfrastructureSharePoint) page.

Following enhancements are available in this release.

- Editable analytical properties of deck and haunch under BIM Workflow
This enhancement allows a user to revise and override the deck and haunch geometry transferred from the related physical model for analysis and design purposes.
- Transfer report of analytical vs physical model under BIM workflow
This enhancement offers a shortcut of quick check (side-by-side) on the detailed information if a user wants to find out what's actually transferred from the physical model vs what's been changed and actually used in the analytical model.
- Retain strand pattern and steel reinforcement under BIM workflow
This enhancement allows to retain strand pattern and steel reinforcement saved in the analytical model when minor changes are made to the physical model, which is being transferred to update the related analytical model subsequently.
- Minor UI improvement under BIM workflow
This enhancement offers improved UI of the Cap design dialogue and Model definition dialogue to make them more user friendly and consistent.
- Update of live load distribution factor
This enhancement updates the calculate the distribution factor for moment in interior beams of the precast solid, voided, or cellular concrete box girder, Type "g", as provided in LRFD 8th Edition (Table 4.6.2.2.1-1).
- Extended enhancement for Nebraska DOT
This enhancement addresses a few more requests from Nebraska DOT regarding the custom configurations in superstructure analysis and design.

Apart from the enhancements to LEAP Bridge Concrete listed above, this release incorporates fixes for the following bugs.

- Precast/Prestressed Girder module (formerly called CONSPAN)
 - No and Cancel buttons did not work properly in the warning message window for the analysis and design when the material or geometry data were changed.
 - Parapets generated through ABC Wizard showed incorrect positions. It's only a graphic issue.
 - Incorrect rating factors were calculated when multiple legal trucks were being selected for the girder types including non-voided rectangular, rectangular with circular voids, multi cells, closed boxes.
- Substructure module (formerly called RC-PIER)

- Reported angle of inclination of diagonal compressive stress did not match that actually used internally to calculate the related nominal shear resistance V_n .
- Nominal shear resistance was incorrectly calculated in the column shear design check.
- The hinge option was not set as default in the substructure module when Texas state option was selected.
- Pile layout was not in sync with the related structure model, causing the cap design results being reported at incorrect locations.

ON24 session/registration links:

<https://www.bentley.com/en/global-events/accelerate/2020/openbridge-virtual>

Installer Notes

As this version of the LEAP Bridge Concrete has become part of the OpenBridge Designer, please refer to the detailed installation guidance coming with OpenBridge Designer.

Support and Services Information

FAQs, What's New/Changed and other technical information can be found on Bentley's [technical support documentation](https://www.bentley.com/en/support) (<https://www.bentley.com/en/support>) page.

Please log issues that you encounter in Bentley products with the [Service Ticket Manager](http://apps.bentley.com/srmanager/ProductSupport) (<http://apps.bentley.com/srmanager/ProductSupport>).

Using the Online Help

LEAP Bridge Concrete features a user manual available in the .chm format. The step by step guides to the tutorials is also provided in the .chm format. Tutorial files are located in Example directory. To access the manual and tutorial guides, select the appropriate link from the Help menu.

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