# STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION 

## bRIDGE LOAD RATING REPORT

## Structure No. 17215

Road
over

## Road/Water/Railroad

## Please Select

BY PLACEMENT OF THE PROFESSIONAL ENGINEERING STAMP AND SIGNATURE I HEREBY STATE THAT I HAVE PERFORMED AN INDEPENDENT CHECK OF THE METHODS, ASSUMPTIONS, LOAD DISTRIBUTION, COMPUTER INPUT FILE(S) AND ALL CALCULATIONS FOR THIS LOAD RATING REPORT FOR THE BRIDGE NUMBER STATED ABOVE. BY STAMPING AND SIGNING ABOVE, I CONFIRM THAT I AGREE WITH ALL METHODS, ASSUMPTIONS, LOAD DISTRIBUTIONS, AND CALCULATIONS CONTAINED IN THIS RATING REPORT.

CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING AND CONSTRUCTION OFFICE OF ENGINEERING

## GENERAL INFORMATION

| Structure No.: 12345 A | City/Town: | Please Select | Route:00000 | Mile Point: | 0.00 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Feature Carried: Road |  | $\square$ |  | Year Built: |  |
| Feature Crossed: Road/Water/Railroad |  |  |  | Year Rebuilt: |  |
| Project No.: | Construction No.: |  | Billable | ject No.: |  |
| Superstructure Boundary Conditions: Please Select |  |  |  |  |  |
| Superstructure Type: Please Select* |  |  |  |  |  |
| Superstructure Material: Please Select |  |  |  |  |  |
| Substructure Type: Please Select* |  |  |  |  |  |
| Deck Type: Please Select |  |  |  |  |  |
| Deck Material: Please Select |  |  |  |  |  |
| Composite: Please Select |  |  |  |  | ! |
| Original Design Code: Please Select |  |  |  |  |  |
| Original Design Load: Please Select* |  |  |  |  |  |
| Evaluation Code: Please Select Code Used for this Load Rating |  |  |  |  |  |
| Rating Load: Please Select Design Truck Used for this Load Rating |  |  |  |  |  |
|  | is Method : | Please Select* |  |  |  |

Basis of Rating: Please Select

* Ability to customize field
Rated By: Rater's full name
Reviewed By: Reviewer's full name
Company Name: Company Name
Company Address: Street, City, State
Date: 01/01/1900
Date: 01/01/1900
Phone No.: (123) 456-7890


## CONNECTICUT DEPARTMENT OF TRANSPORTATION

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| AASHTO DESIGN VEHICULAR RATING SUMMARY |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIVE LOAD | RF | TONS | SPAN/ CELL | CONTROLLING MEMBER | MEMBER <br> LENGTH (ft) | $\begin{aligned} & \text { CONTROL } \\ & \text { LOC (x.xL) } \end{aligned}$ | LIMIT STATE | CONTROLLING <br> MECHANISM |
| Please Select |  | N/A |  | - 1 - |  | $\checkmark$ | Please Select | Please Select* |
| Please Select |  | N/A |  |  |  |  | Please Select | Please Select* |


| AASHTO FATIGUE RATING SUMMARY |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIVE LOAD | RF | EXP. <br> YEAR | SPAN | CONTROLLING MEMBER | MEMBER <br> LENGTH (ft) | CONTROL <br> LOC (x.xL) | FATIGUE <br> CATEGORY |  |
| N/A |  | N/A |  |  |  |  | N/A |  |


| SERVICE III DESIGN AND LEGAL RATING SUMMARY |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIVE LOAD |  | RF | TONS | SPAN/ <br> CELL | CONTROLLING MEMBER | MEMBER <br> LENGTH (ft) | CONTROL <br> LOC (x.xL) |
| N/A |  | N/A |  |  |  |  | N/A |
| N/A |  | N/A |  |  |  | N/A |  |

## CONNECTICUT DEPARTMENT OF TRANSPORTATION

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| AASHTO LEGAL VEHICULAR RATING SUMMARY |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIVE LOAD | RF | TONS | SPAN/ CELL | CONTROLLING MEMBER | MEMBER LENGTH (ft) | CONTROL <br> LOC (x.xL) | LIMIT STATE | CONTROLLING MECHANISM |
| Type 3 |  |  |  |  |  | $\checkmark$ ( | Please Select | Please Select* |
| Type 3S2 |  |  |  |  |  |  | Please Select | Please Select* |
| Type 3-3 |  |  |  |  |  |  | Please Select | Please Select* |
| SU4 |  |  |  |  |  |  | Please Select | Please Select* |
| SU5 |  |  |  |  |  |  | Please Select | Please Select* |
| SU6 |  |  |  |  |  |  | Please Select | Please Select* |
| SU7 |  |  |  |  |  |  | Please Select | Please Select* |


| CONNECTICUT LEGAL VEHICULAR RATING SUMMARY |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIVE LOAD | RF | TONS | SPAN/ CELL | CONTROLLI | ING MEMBER | MEMBER <br> LENGTH (ft) | $\begin{aligned} & \text { CONTROL } \\ & \text { LOC (x.xL) } \end{aligned}$ | LIMIT STATE | CONTROLLING MECHANISM |
| CT-L73.0 |  | $\square$ |  |  |  |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  |  | Please Select | Please Select* |
| CT-HS20 |  | 入 |  |  |  |  |  | Please Select | Please Select* |
| CT-H20 |  |  |  |  |  |  |  | Please Select | Please Select* |


| EMERGENCY VEHICULAR RATING SUMMARY |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIVE LOAD | RF | $\begin{array}{\|l\|} \hline \text { GVW } \\ \text { (Tons) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { AXLE } \\ \text { (Tons) } \end{array}$ | SPAN /CELL | CONTROLLING MEMBER | $\begin{gathered} \hline \text { MEMBER } \\ \text { LENGTH (ft) } \end{gathered}$ | CONTROL <br> LOC (x.xL) | LIMIT STATE | CONTROLLING MECHANISM |
| Please Select |  |  |  | - |  |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  |  | Please Select | Please Select* |

## CONNECTICUT DEPARTMENT OF TRANSPORTATION

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| CONNECTICUT PERMIT VEHICULAR RATING SUMMARY |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LIVE LOAD | RF | TONS | SPAN/ CELL | CONTROLLING MEMBER | $\begin{aligned} & \text { MEMBER } \\ & \text { LENGTH (ft) } \end{aligned}$ | $\begin{aligned} & \text { CONTROL } \\ & \text { LOC (x.xL) } \end{aligned}$ | LIMIT STATE | CONTROLLING MECHANISM |
| Please Select |  |  |  | ${ }^{2}$ |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  | Please Select | Please Select* |
| Please Select |  |  |  |  |  |  | Please Select | Please Select* |
| Please Select |  | $\square$ |  |  |  |  | Please Select | Please Select* |
| ADDITIONAL VEHICULAR RATING SUMMARY |  |  |  |  |  |  |  |  |
| LIVE LOAD | RF | TONS | SPAN/ <br> CELL | CONTROLLING MEMBER | $\begin{array}{\|c\|} \hline \text { MEMBER } \\ \text { LENGTH (ft) } \end{array}$ | $\begin{aligned} & \text { CONTROL } \\ & \text { LOC (x.xL) } \end{aligned}$ | LIMIT STATE | CONTROLLING MECHANISM |
|  |  |  |  |  |  |  | Please Select | Please Select* |
|  |  |  |  |  |  |  | Please Select | Please Select* |
|  |  |  |  |  |  |  | Please Select | Please Select* |
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|  |  |  | - |  |  |  | Please Select | Please Select* |
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|  |  |  |  | - |  |  | Please Select | Please Select* |
|  |  |  |  |  |  |  | Please Select | Please Select* |

* Ability to customize field

CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING AND CONSTRUCTION OFFICE OF ENGINEERING

## SPECIFICATIONS

| SPECIFICATIONS |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Bridge Load Rating Manual version | 2018.01 .0 |  |  |  |
| AASHTO The Manual for Bridge Evaluation version | 3rd | edition with the 2018 | interims |  |
| AASHTO LRFD Bridge Design Specifications version | 9th | edition with the | 2020 | interims |
| Recent Routine/Indepth Bridge Inspection date (yyyy) |  |  |  |  |
| CONSTRUCTION RECORDS |  |  |  |  |
|  |  |  |  |  |

## ADDITIONAL REFERENCES

2016 Bridge Inspection Report
2010 Bridge Inspection Report
AISC Manual for Steel Construction 14th ed. third printing 2013
AISC Manual for Steel Construction 3rd ed. second printing 1939
Guide to Design Criteria for Bolted and Riveted Joints, John W. Fisher \& John H. A. Struik, 1974
Modeling of Double-Angle Connections for Robustness Evaluation of Steel Gravity Frames (Copy in Appendix)

## CALCULATION TOOLS

AASHTOWare Bridge Rating Version x.x.x.xxxx
Larsa 4D (version number)
Midas Civil (version number)
Mathcad (version number)
Excel (version)
CT-BeamEnd (version number)
CT-MPipe (version number)
CT-Fill (version number)
CT-LoadFactor (version number)

