

DEAD LOAD DEFLECTION TABLE FOR GIRDERS OF SPAN C

| 0.6" Ø LOW-RELAXATION | | GIRDER 1 | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TWENTIETH POINTS | BRG. | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | BRG. |
| CAMBER (GIRDER ALONE IN PLACE) ↑ | 0.000 | 0.008 | 0.016 | 0.024 | 0.031 | 0.037 | 0.043 | 0.047 | 0.050 | 0.052 | 0.052 | 0.052 | 0.050 | 0.047 | 0.043 | 0.037 | 0.031 | 0.024 | 0.016 | 0.008 | 0.000 |
| * DEFLECTION DUE TO SUPERIMPOSED DL ↓ | 0.000 | 0.004 | 0.011 | 0.017 | 0.022 | 0.027 | 0.031 | 0.034 | 0.036 | 0.037 | 0.038 | 0.037 | 0.036 | 0.034 | 0.031 | 0.027 | 0.022 | 0.017 | 0.011 | 0.006 | 0.000 |
| FINAL CAMBER ↑ | 0 | 1/16" | 1/16" | 1/16" | 1/8" | 1/8" | 1/8" | 3/16" | 3/16" | 3/16" | 3/16" | 3/16" | 3/16" | 3/16" | 1/8" | 1/8" | 1/8" | 1/16" | 1/16" | 1/16" | 0 |

| 0.6" Ø LOW-RELAXATION | | GIRDER 2 | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TWENTIETH POINTS | BRG. | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | BRG. |
| CAMBER (GIRDER ALONE IN PLACE) ↑ | 0.000 | 0.008 | 0.016 | 0.024 | 0.031 | 0.037 | 0.043 | 0.047 | 0.050 | 0.052 | 0.052 | 0.052 | 0.050 | 0.047 | 0.043 | 0.037 | 0.031 | 0.024 | 0.016 | 0.008 | 0.000 |
| * DEFLECTION DUE TO SUPERIMPOSED DL ↓ | 0.000 | 0.005 | 0.010 | 0.015 | 0.019 | 0.023 | 0.027 | 0.029 | 0.032 | 0.033 | 0.034 | 0.033 | 0.032 | 0.029 | 0.027 | 0.023 | 0.019 | 0.015 | 0.010 | 0.005 | 0.000 |
| FINAL CAMBER ↑ | 0 | 1/16" | 1/16" | 1/8" | 1/8" | 3/16" | 3/16" | 3/16" | 3/16" | 1/4" | 1/4" | 1/4" | 3/16" | 3/16" | 3/16" | 3/16" | 1/8" | 1/8" | 1/16" | 1/16" | 0 |

| 0.6" Ø LOW-RELAXATION | | GIRDER 3 | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TWENTIETH POINTS | BRG. | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | BRG. |
| CAMBER (GIRDER ALONE IN PLACE) ↑ | 0.000 | 0.008 | 0.016 | 0.024 | 0.031 | 0.037 | 0.043 | 0.047 | 0.050 | 0.052 | 0.052 | 0.052 | 0.050 | 0.047 | 0.043 | 0.037 | 0.031 | 0.024 | 0.016 | 0.008 | 0.000 |
| * DEFLECTION DUE TO SUPERIMPOSED DL ↓ | 0.000 | 0.006 | 0.008 | 0.011 | 0.015 | 0.018 | 0.021 | 0.023 | 0.025 | 0.026 | 0.026 | 0.026 | 0.025 | 0.023 | 0.021 | 0.018 | 0.015 | 0.011 | 0.008 | 0.004 | 0.000 |
| FINAL CAMBER ↑ | 0 | 1/16" | 1/16" | 1/8" | 3/16" | 1/4" | 1/4" | 5/16" | 5/16" | 5/16" | 5/16" | 5/16" | 5/16" | 5/16" | 1/4" | 1/4" | 3/16" | 1/8" | 1/8" | 1/16" | 0 |

DEAD LOAD DEFLECTION TABLE FOR GIRDERS OF SPAN D

| 0.6" Ø LOW-RELAXATION | | GIRDER 1 | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TWENTIETH POINTS | BRG. | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | BRG. |
| CAMBER (GIRDER ALONE IN PLACE) ↑ | 0.000 | 0.008 | 0.016 | 0.024 | 0.030 | 0.036 | 0.042 | 0.046 | 0.049 | 0.051 | 0.051 | 0.051 | 0.049 | 0.046 | 0.042 | 0.036 | 0.030 | 0.024 | 0.016 | 0.008 | 0.000 |
| * DEFLECTION DUE TO SUPERIMPOSED DL ↓ | 0.000 | 0.006 | 0.010 | 0.016 | 0.021 | 0.025 | 0.029 | 0.031 | 0.034 | 0.035 | 0.036 | 0.035 | 0.034 | 0.031 | 0.029 | 0.025 | 0.021 | 0.015 | 0.010 | 0.005 | 0.000 |
| FINAL CAMBER ↑ | 0 | 1/16" | 1/16" | 1/8" | 1/8" | 1/8" | 1/8" | 3/16" | 3/16" | 3/16" | 3/16" | 3/16" | 3/16" | 3/16" | 1/8" | 1/8" | 1/8" | 1/8" | 1/16" | 1/16" | 0 |

| 0.6" Ø LOW-RELAXATION | | GIRDER 2 | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TWENTIETH POINTS | BRG. | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | BRG. |
| CAMBER (GIRDER ALONE IN PLACE) ↑ | 0.000 | 0.008 | 0.016 | 0.024 | 0.030 | 0.036 | 0.042 | 0.046 | 0.049 | 0.051 | 0.051 | 0.051 | 0.049 | 0.046 | 0.042 | 0.036 | 0.030 | 0.024 | 0.016 | 0.008 | 0.000 |
| * DEFLECTION DUE TO SUPERIMPOSED DL ↓ | 0.000 | 0.005 | 0.009 | 0.014 | 0.018 | 0.022 | 0.025 | 0.027 | 0.030 | 0.030 | 0.031 | 0.030 | 0.030 | 0.027 | 0.025 | 0.021 | 0.018 | 0.013 | 0.009 | 0.005 | 0.000 |
| FINAL CAMBER ↑ | 0 | 1/16" | 1/16" | 1/8" | 1/8" | 3/16" | 3/16" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" | 3/16" | 3/16" | 1/8" | 1/8" | 1/16" | 1/16" | 0 |

| 0.6" Ø LOW-RELAXATION | | GIRDER 3 | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TWENTIETH POINTS | BRG. | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | BRG. |
| CAMBER (GIRDER ALONE IN PLACE) ↑ | 0.000 | 0.008 | 0.016 | 0.024 | 0.030 | 0.036 | 0.042 | 0.046 | 0.049 | 0.051 | 0.051 | 0.051 | 0.049 | 0.046 | 0.042 | 0.036 | 0.030 | 0.024 | 0.016 | 0.008 | 0.000 |
| * DEFLECTION DUE TO SUPERIMPOSED DL ↓ | 0.000 | 0.004 | 0.007 | 0.011 | 0.014 | 0.017 | 0.020 | 0.022 | 0.023 | 0.024 | 0.025 | 0.024 | 0.023 | 0.022 | 0.020 | 0.017 | 0.014 | 0.011 | 0.007 | 0.005 | 0.000 |
| FINAL CAMBER ↑ | 0 | 1/16" | 1/8" | 1/8" | 3/16" | 1/4" | 1/4" | 5/16" | 5/16" | 5/16" | 5/16" | 5/16" | 5/16" | 5/16" | 1/4" | 1/4" | 3/16" | 1/8" | 1/8" | 1/16" | 0 |

* INCLUDES FUTURE WEARING SURFACE IN SUPERIMPOSED DEAD LOAD.

ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS SHOWN IN INCHES (FRACTION FORM).

PROJECT NO. U-5748
WAKE COUNTY
 STATION: 24+88.00 -L-

SHEET 2 OF 2

DRAWN BY : D.R. DRUM DATE : 06/2021
 CHECKED BY : J.C. MORRISON DATE : 06/2021
 DESIGNED BY : G.L. HAMILTON DATE : 11/2020
 DESIGN CHECKED BY : J.C. MORRISON DATE : 11/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE

DEAD LOAD DEFLECTIONS
 (SOUTHBOUND LANES)

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 119 |

DATE: 2/10/2023 TIME: 10:58:51 PM
 USER: c:\pwworking\john.morrison\My Documents\AECOM\2020\Drawings\402_051_U-5748_SKU_DL2_S2-25_9101.DWG
 DSN: pwworking\john.morrison\My Documents\AECOM\2020\Drawings\402_051_U-5748_SKU_DL2_S2-25_9101.DWG
 User: john.morrison Date: 2/10/2023 10:58:51 PM