

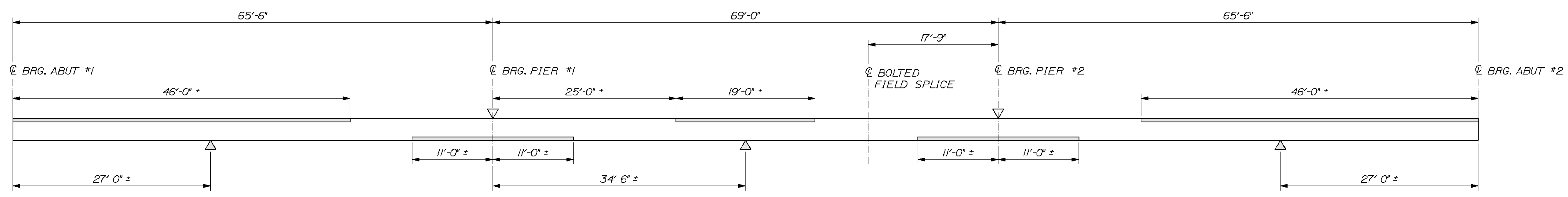
CAMBER DIAGRAM
N.T.S.

| Table of Camber -Exterior Girders (Inches) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|------|------|------|------|------|------|------|------|------|----------------|-------|------|------|------|------|------|------|------|-------|----------------|------|------|------|------|------|------|------|------|------|-----------------|------|
| | CL Brg Abut #1 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Pier #1 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Pier #2 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Abut. #2 | |
| Steel Dead Load | 0.00 | 0.04 | 0.07 | 0.10 | 0.11 | 0.11 | 0.09 | 0.07 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.09 | 0.11 | 0.11 | 0.10 | 0.09 | 0.07 | 0.04 | 0.00 |
| Fluid Exterior | 0.00 | 0.18 | 0.33 | 0.44 | 0.49 | 0.49 | 0.43 | 0.32 | 0.20 | 0.08 | 0.00 | -0.02 | 0.01 | 0.05 | 0.08 | 0.09 | 0.08 | 0.05 | 0.01 | -0.02 | 0.00 | 0.08 | 0.20 | 0.32 | 0.43 | 0.49 | 0.49 | 0.44 | 0.33 | 0.18 | 0.00 | |
| SIDL Ext | 0.00 | 0.04 | 0.07 | 0.09 | 0.10 | 0.10 | 0.09 | 0.07 | 0.05 | 0.02 | 0.00 | 0.01 | 0.03 | 0.04 | 0.05 | 0.06 | 0.05 | 0.04 | 0.03 | 0.01 | 0.00 | 0.02 | 0.05 | 0.07 | 0.09 | 0.10 | 0.10 | 0.09 | 0.07 | 0.04 | 0.00 | |
| Residual Camber | 0.00 | 0.38 | 0.63 | 0.88 | 1.00 | 0.94 | 0.88 | 0.63 | 0.38 | 0.19 | 0.00 | 0.00 | 0.13 | 0.50 | 0.88 | 1.00 | 0.88 | 0.50 | 0.13 | 0.00 | 0.00 | 0.19 | 0.38 | 0.63 | 0.88 | 0.94 | 1.00 | 0.88 | 0.63 | 0.38 | 0.00 | |
| Total Camber Ext | 0.00 | 0.63 | 1.09 | 1.50 | 1.70 | 1.63 | 1.48 | 1.09 | 0.67 | 0.31 | 0.00 | -0.02 | 0.16 | 0.60 | 1.03 | 1.17 | 1.03 | 0.60 | 0.16 | -0.02 | 0.00 | 0.31 | 0.67 | 1.09 | 1.48 | 1.63 | 1.70 | 1.50 | 1.09 | 0.63 | 0.00 | |

| Table of Camber -Interior Girders (Inches) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|------|------|------|------|------|------|------|------|------|----------------|-------|------|------|------|------|------|------|------|-------|----------------|------|------|------|------|------|------|------|------|------|-----------------|------|
| | CL Brg Abut #1 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Pier #1 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Pier #2 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Abut. #2 | |
| Steel Dead Load | 0.00 | 0.04 | 0.07 | 0.10 | 0.11 | 0.11 | 0.09 | 0.07 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.09 | 0.11 | 0.11 | 0.10 | 0.09 | 0.07 | 0.04 | 0.00 |
| Fluid Interior | 0.00 | 0.24 | 0.44 | 0.59 | 0.66 | 0.65 | 0.57 | 0.44 | 0.27 | 0.11 | 0.00 | -0.03 | 0.01 | 0.06 | 0.11 | 0.12 | 0.11 | 0.06 | 0.01 | -0.03 | 0.00 | 0.11 | 0.27 | 0.44 | 0.57 | 0.65 | 0.66 | 0.59 | 0.44 | 0.24 | 0.00 | |
| SIDL Int | 0.00 | 0.04 | 0.07 | 0.09 | 0.11 | 0.11 | 0.10 | 0.08 | 0.05 | 0.02 | 0.00 | 0.01 | 0.03 | 0.05 | 0.06 | 0.06 | 0.06 | 0.05 | 0.03 | 0.01 | 0.00 | 0.02 | 0.05 | 0.08 | 0.10 | 0.11 | 0.11 | 0.09 | 0.07 | 0.04 | 0.00 | |
| Residual Camber | 0.00 | 0.38 | 0.63 | 0.88 | 1.00 | 0.94 | 0.88 | 0.63 | 0.38 | 0.19 | 0.00 | 0.00 | 0.13 | 0.50 | 0.88 | 1.00 | 0.88 | 0.50 | 0.13 | 0.00 | 0.00 | 0.19 | 0.38 | 0.63 | 0.88 | 0.94 | 1.00 | 0.88 | 0.63 | 0.38 | 0.00 | |
| Total Camber Int | 0.00 | 0.69 | 1.21 | 1.65 | 1.87 | 1.80 | 1.64 | 1.21 | 0.74 | 0.34 | 0.00 | -0.02 | 0.16 | 0.62 | 1.06 | 1.21 | 1.06 | 0.62 | 0.16 | -0.02 | 0.00 | 0.34 | 0.74 | 1.21 | 1.64 | 1.80 | 1.87 | 1.65 | 1.21 | 0.69 | 0.00 | |

* ALL GRADES RAISED 0.1' TO ADJUST FOR NEGATIVE HAUNCH DEPTH PER DESIGNER

| Bottom of Slab Elevations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| | CL Brg Abut #1 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Pier #1 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Pier #2 | 0.1L | 0.2L | 0.3L | 0.4L | 0.5L | 0.6L | 0.7L | 0.8L | 0.9L | CL Brg Abut. #2 |
| G1 | 450.27 | 450.22 | 450.17 | 450.11 | 450.05 | 449.99 | 449.92 | 449.84 | 449.76 | 449.68 | 449.61 | 449.54 | 449.47 | 449.41 | 449.35 | 449.28 | 449.21 | 449.13 | 449.06 | 448.99 | 448.92 | 448.86 | 448.81 | 448.76 | 448.70 | 448.64 | 448.58 | 448.51 | 448.43 | 448.35 | 448.27 |
| G2 | 450.54 | 450.49 | 450.45 | 450.40 | 450.34 | 450.27 | 450.20 | 450.12 | 450.04 | 449.96 | 449.88 | 449.81 | 449.75 | 449.68 | 449.62 | 449.55 | 449.48 | 449.41 | 449.33 | 449.26 | 449.19 | 449.14 | 449.09 | 449.04 | 448.98 | 448.93 | 448.86 | 448.79 | 448.71 | 448.62 | 448.54 |
| G3 | 450.70 | 450.65 | 450.61 | 450.56 | 450.50 | 450.43 | 450.36 | 450.28 | 450.20 | 450.12 | 450.04 | 449.97 | 449.91 | 449.84 | 449.78 | 449.71 | 449.64 | 449.57 | 449.49 | 449.42 | 449.35 | 449.30 | 449.25 | 449.20 | 449.15 | 449.09 | 449.02 | 448.95 | 448.87 | 448.79 | 448.70 |
| G4 | 450.55 | 450.50 | 450.45 | 450.39 | 450.33 | 450.27 | 450.20 | 450.12 | 450.04 | 449.97 | 449.89 | 449.82 | 449.76 | 449.69 | 449.63 | 449.56 | 449.49 | 449.42 | 449.34 | 449.27 | 449.20 | 449.15 | 449.09 | 449.04 | 448.98 | 448.92 | 448.86 | 448.79 | 448.71 | 448.63 | 448.55 |



GIRDER STRESS DIAGRAM
 ▽= MAXIMUM NEGATIVE MOMENT
 △= MAXIMUM POSITIVE MOMENT
 SHADED AREAS ARE ALWAYS IN COMPRESSION
 OTHER AREAS ARE IN TENSION OR HAVE STRESS REVERSAL

CALDERWOOD ENGINEERING, ETC.
 STRUCTURAL ENGINEERING • DETAILING SERVICES
 222 RIVER RD, RICHMOND, ME 04857 PH/FX (207) 737-2007/(207) 737-2008
 PREPARED FOR: **COLD RIVER BRIDGES, LLC**
 CEE 106-BR-14

| | | | | | | | | |
|------|-----|-----------------|------------------|-------------|-------------|-------------|-------------|---------------|
| DATE | BY | DESIGN-DETAILED | CHECKED-REVIEWED | REVISIONS 1 | REVISIONS 2 | REVISIONS 3 | REVISIONS 4 | FIELD CHANGES |
| ZCH | EJC | | | | | | | |

VE SUPER. DESIGN
 ROCKINGHAM VT. BR# 0126 (12)
 STEEL GIRDER DETAILS (3 OF 3)

SHEET NUMBER
28a

