### DESIGN NOTES

1. **THIS DRAWING PROVIDES INFORMATION FOR THE DESIGNER AND IS NOT INTENDED FOR USE AS A STANDARD DRAWING. REVISIONS MAY BE NEEDED TO MATCH STANDARD DRAWING SPACING AND RODS FOR THE SPECIFIC BRIDGE.**


3. **DESIGN DATA**

   - **Sketch:** The design data are applicable to structures with skew angles of 30° or less.

   - **LOADS:**
     - **Live Load:** The approximate methods of analysis given in the AASHTO LRFD Standard Design Article 6.2.2 have been used. The application of that section can be found in Table 6.2.2-1, 1 The design is for bridges without TRANSVERSE Plastic HINGE BEAMS are CONNECTED ONLY AT THE INTERFRONT. All design loads herein are based on standard LRFD loadings and do not include the effects of girder bearing factors. However, these designs may also be used for interior beams with minor adjustments to the plastic hinge factors.

   - **Superimposed:** Asphalt Overlay: 5.5" thick (140 m).

   - **Dead Loads:**
     - **Superimposed:** Asphalt Overlay: 5.5" thick (140 m).

4. **STRENGTH DESIGN MEASUREMENTS:**

   - **Concrete:** MIN. COMPRESSIVE STRENGTH AT 28 DAYS 4000 psi (27.5 MPa).

   - **Steel:**
     - **Superimposed:** 10.5 ksi (70 MPa).

   - **Preferred Grade:** 50 ksi (345 MPa).

   - **Reinforcement:**
     - **Superimposed:** 40 ksi (275 MPa).

   - **Prestressing:**
     - **Steel Diameter:** 5/8".

   - **Stress:**
     - **Superimposed:** 5/8".

   - **Relat. Humidity:** 70%.

5. **INSTRUCTIONS FOR THE DESIGNER:**

   - **Visual Inspection:** 25" x 25" - 250" x 250".

   - **Initial Tension Load:** 32.5 ksi/strand.

A. **SEVERE CORROSION ENVIRONMENT WAS ASSUMED IN DETERMINING THE TERRINE STRESS LIMITS FOR LOADS AS GIVEN AASHTO LRFD Article 5.9.4.2.2.**

B. **LOAD MODIFIERS FOR DUCTILITY, REDUNDANCY, AND OPERATIONAL IMPORTANCE WERE TAKEN AS 1.0 AASHTO LRFD Article 1.1.4.**

C. **STRAINS ARE NOT INFORMED IN SECTION PROPERLY IN THE COURSES, CALCULATIONS, AND WOULD BE CONSIDERED IN DETERMINING THE STRENGTH OF THE DUE.**

D. **DESIGN CRITERIA FOR DEFLECTION GIVEN IN AASHTO LRFD Article 6.3.2.9.**

E. **STRAINS ARE NOT INFORMED IN SECTION PROPERLY IN THE COURSES, CALCULATIONS, AND WOULD BE CONSIDERED IN DETERMINING THE STRENGTH OF THE DUE.**

F. **CAMEL LOADS HAVE BEEN COMPUTED IN ACCORDANCE WITH AASHTO EQUATIONS 3.5.1.1.9, 3.5.1.1.9, AND 3.5.1.1.9.**

G. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

H. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

I. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

J. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

K. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

L. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

M. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

N. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

O. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

P. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

Q. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

R. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

S. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

T. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

U. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

V. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

W. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

X. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

Y. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

Z. **CAMBER MEASUREMENTS ARE TAKEN AS 5/8"+5/8".**

### DESIGN DATA

- **See Table 6.1:**

### TYPICAL STRAND LOCATION & STIRRUP SPACING

- **STIRRUP:**

- **STIRRUP:**

- **STIRRUP:**

- **STIRRUP:**

- **STIRRUP:**

- **STIRRUP:**

### NOTES:

1. **LENGTH MEASURED FROM ENDS OF BEAM**

2. **FOR B12-36, PROVIDE A STRAIGHT BAR AT THE END OF THE BEAM AT EACH LOCATION WHERE A STIRRUP IS PROVIDED.**

3. **FOR B12-36 THROUGH 36-36, STIRRUP M AND STIRRUP N WILL BE PLACED AT THE SAME LOCATION ALONG THE LENGTH.**

4. **FOR B12-36 THROUGH 36-36, STIRRUP M AND STIRRUP N WILL BE PLACED AT THE SAME LOCATION ALONG THE LENGTH.**

5. **FOR B12-36 THROUGH 36-36, STIRRUP M AND STIRRUP N WILL BE PLACED AT THE SAME LOCATION ALONG THE LENGTH.**