BOLTS

**Typical Sign Connection**

The sign panel, chord, and web are to be supplied with the sign supports and hardware to be supplied by the contractor.

**Chord Splice Plate Detail**

- TOP PLATE CLAMP SHOWN
- BOTTOM PLATE CLAMP SHOWN

**Chord Splice Connection Data**

- **Standard Design Truss**
  - **3**
  - **3.2**
  - **3.3**
  - **3.4**
  - **3.5**
  - **3.6**
  - **3.7**

**Chord Splice Plate Details**

- **Top Plate**
- **Bottom Plate**

**3-D View DMS Connection**

- **Chord Not Shown for Clarity**

**4-Chord Truss Full Span Connections 2**

**Updated: April 2021**

**State of Wisconsin**

**State Project Number**

**Structures Design Section**

**Date**

**Scale = 2.00**
ONE SPLICE ALLOWED FOR LENGTHS OVER 30'-0". 

**SECTION THRU WALKWAY**

1. **BACKRAIL SPLICE**
   - One splice allowed for lengths over 40'-0".

2. **SECTIONS**
   - Full span connections for 4-chord trusses.
   - End connections for 4-chord trusses.
   - Full span connections for 4-chord trusses.

**TERMINATION**

1. **CATWALK SPLICE LOCATION DETAIL**
   - Vertical clearance measured to the bottom of catwalk.

2. **SAFETY CHAIN DETAIL**
   - Chain safety chain at each end of the catwalk.

3. **NOTE:**
   - Chain guard shall meet the current OSHA "LRFD" standards for structural supports for pedestrian walkways and shall meet the requirements of the Wisconsin Code of Ordinances.

**CATWALK DETAILS**

1. **ALUM RAILING**
   - 1½" O.D. X 32" (Minimum) for pedestrian walkways.

2. **THREADED ROD**
   - 1½" DIA S.S. X 1½" ALUM RAIL POST

3. **FASTENED AT EACH SUPPORT**
   - ALUM RAIL POSTS FASTENED AT EACH SUPPORT

4. **CATWALK TO BE SECURELY ATTACHED**
   - CATWALK TO BE SECURELY ATTACHED TO THE STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS.

**SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS**

1. **W6x12 DMS/CATWALK SUPPORT, HORIZONTAL RUN FROM START OF CATWALK TO EDGE OF DMS.**
   - MAX SPAN IS 8'-0".

2. **OVER 2'-0" TRANSVERSELY - MAX SPAN IS 8'-0".**
   - CATWALK SHALL MEET THE CURRENT AASHTO "LRFD" SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS. (500 LB LIVE LOAD DISTRIBUTED)

**TYPICAL FRONT RAILING DETAILS**

1. **TOP HANDRAIL**
   - 3 '-6 " (Minimum) for pedestrian walkways.

2. **S.S. WASHERS**
   - WASHERS EACH WITH 2 NUTS & LOCK (STAINLESS STEEL)

3. **TYP**
   - TYPICAL FRONT RAILING DETAILS

**NOTE:**

1. **SPLICE FULL STRENGTH SPLICE FULL PENETRATION**

2. **BACKRAIL SPLICE**
   - Holder may be spaced in this area only.

3. **TOP HANDRAIL**
   - TOP HANDRAIL 1½" O.D. X 32" ALUM RAILING

4. **TOP LOCK**
   - TOP LOCK 1½" S.S. WASHER

5. **THREADED ROD**
   - 1½" DIA S.S. ROD

**NOTE:**

1. **SAFETY CHAIN DETAIL**
   - SAFETY CHAIN DETAIL

2. **RAIL POST DETAIL**
   - RAIL POST DETAIL

3. **SECTION C-C**
   - SECTION C-C

4. **RAIL TO BE SECURED**
   - ALUM RAIL TO BE SECURED TO THE STRUCTURAL SUPPORTS FOR WALKING-WORKING SURFACES.

**DETAILS SEE SHEET IV**

1. **DMS/CATWALK CONNECTION, FOR**

2. **TO THE BOTTOM OF CATWALK**

3. **VERTICAL CLEARANCE MEASURED TO THE BOTTOM OF CATWALK**

**NOTE:**

1. **TO THE BOTTOM OF CATWALK**

2. **VERTICAL CLEARANCE MEASURED TO THE BOTTOM OF CATWALK**

3. **TOP HANDRAIL**
   - TOP HANDRAIL 1½" O.D. X 32" ALUM RAILING

4. **TOP LOCK**
   - TOP LOCK 1½" S.S. WASHER

5. **THREADED ROD**
   - 1½" DIA S.S. ROD

**NOTE:**

1. **SAFETY CHAIN DETAIL**
   - SAFETY CHAIN DETAIL

2. **RAIL POST DETAIL**
   - RAIL POST DETAIL

3. **SECTION C-C**
   - SECTION C-C

4. **RAIL TO BE SECURED**
   - ALUM RAIL TO BE SECURED TO THE STRUCTURAL SUPPORTS FOR WALKING-WORKING SURFACES.
1.0 0 bos standard Electrical DETAILS

HANDHOLE NOTES

Handholes shall be located in one column of the sign bridge structure. Electrically operated devices are installed under the bridge columns, and handholes shall be near the electrical devices. The contractor shall verify the location of the electrical devices on the drawing and locate the handholes accordingly. The handhole shall be located per the location and size shown on the electrical plans.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.

CONDUIT HOLES LOCATIONS

CONDUIT PLUG DETAILS

6" threaded plug for unused holes

CONDUIT HOLE LOCATIONS

CONDUIT PLUG DETAILS

6" threaded hole use threaded conduit plug for unused holes