See Note 8

1'-5" dia. Bolt Circle

Legend:
* = Required dimension. See Note 2 on Sheet

Notes:
For Notes and Table see Sheet
NOTES:

1. The design of the Steel Truss Overhead Sign Support meets the requirements of the AASHO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, First Edition 2015 (LRFD/LTS-1) and all interim releases prior to the last state of the project.

2. Dimensions marked as required shall be as indicated on the drawing and shall not be otherwise.

3. Calculations are required for any modifications shown on the drawings. Modifications shall meet the requirements of LRFD/LTS-1 and the design criteria shown in Note 19. Calculations shall be stamped by a Professional Engineer registered in the state of Ohio and shall be submitted for review and approval with the shop drawings.

4. For sign attachment assemblies to be furnished with this support, construction details, and function of hardware, see Standard Construction Drawings (SCD) TC-22.10 and TC-22.20.

5. For foundation details, see SCD TC-21.11.

6. For truss bracing members, one internal diagonal is required at each end of each section and at the panel point nearest the centerline of the truss section when the section exceeds 25' in length. Tube-to-tube type butted connections are not permitted.

7. Camber the truss for full dead load including signs a minimum of 1" for a span of 50' or less. Increase the camber ¼" for each 5' of span over 50'.

8. Internal diagonal only may be relocated from the indicated position to avoid weld joint overlap.

9. Structural steel plate and WT sections shall meet the requirements of C&MS 630 and 711.01 with the following limitations:
   - Structural steel - ASTM A 709 Grade 50 (A572)
     - Not Grade 36, 50W or 70W
   - Structural steel plate and WT sections shall meet the requirements of C&MS 730.14, preformed bearing pads meeting the requirements of C&MS 516 and 711.21 or Saddle shims can be aluminum castings meeting the requirements of C&MS 730.14, shall be submitted to the ODOT Office of Material Management Structural Welding and Materials Engineer.

10. All material shall meet the requirements of C&MS 730 with the following limitations:
   - Steel tube and pipe - ASTM A 500 Grade B
     - Not Grade 36, 50W or 70W
   - Steel hardware - Galvanizing - ASTM A 153 (Hot-dipped) - Not ASTM B 695 Class 50
   - Steel hardware - Galvanizing - ASTM A 153 (Hot-dipped) - Not ASTM A 53 Grade B and ASTM A 501

11. Holes for high-strength bolts and bearing bolts shall meet the requirements of C&MS 513.19. Modifications to the holes must be approved by the Engineer. Enlarging or slotting holes to match mis-aligned anchor bolts will not be permitted.

12. For sign attachment assemblies to be furnished with this support, construction details, and function of hardware, see Standard Construction Drawings (SCD) TC-22.10 and TC-22.20.

13. Design Criteria:
   - Load Parameters:
     - Wind Load: 1700-year MRI Basic Wind Speed Map, 120 mph Design Wind Speed
     - Service Life: Infinite per LRFD/LTS-1 11.9.3
     - Service I Wind Velocity: 76 mph per LRFD/LTS-1 Table 3.4.1 and Figure 3.8-4b
   - ADT: Greater than 10,000

14. Anchor bolt nuts shall meet the requirements of ASTM A 563 Grade DH or A 194 Grade 2H.

15. Anchor bolt washers shall meet the requirements of ASTM F 436 (Hot-dip galvanized) according to ASTM A 153.

16. For sign attachment assemblies to be furnished with this support, construction details, and function of hardware, see Standard Construction Drawings (SCD) TC-22.10 and TC-22.20.

17. All welds shall be inspected according to the requirements of C&MS 630.06 and AWS D1.1 Structural Welding Code - Steel. A report of the welding inspection shall be submitted to the ODOT Office of Material Management Structural Welding and Materials Engineer.

18. Saddle shims can be aluminum castings meeting the requirements of C&MS 730.14, performed bearing pads meeting the requirements of C&MS 516 and 711.21 or ASTM A 105 Grade 36 steel galvanized according to C&MS 711.03.

19. Design Criteria:
   - Fatigue Parameters:
     - Fatigue Category: I
     - Natural Wind Gust: Include
     - Truck-Induced Gust: Include
     - Galloping: Do not include

20. For sign attachment assemblies to be furnished with this support, construction details, and function of hardware, see Standard Construction Drawings (SCD) TC-22.10 and TC-22.20.

21. For foundation details, see SCD TC-21.11.

22. Dimensions marked as required shall be as indicated on the drawing and shall not be otherwise.

23. Calculations are required for any modifications shown on the drawings. Modifications shall meet the requirements of LRFD/LTS-1 and the design criteria shown in Note 19. Calculations shall be stamped by a Professional Engineer registered in the state of Ohio and shall be submitted for review and approval with the shop drawings.

24. All welds shall be inspected according to the requirements of C&MS 630.06 and AWS D1.1 Structural Welding Code - Steel. A report of the welding inspection shall be submitted to the ODOT Office of Material Management Structural Welding and Materials Engineer.

25. Anchor bolt washers shall meet the requirements of ASTM F 436 (Hot-dip galvanized) according to ASTM A 153.

26. For sign attachment assemblies to be furnished with this support, construction details, and function of hardware, see Standard Construction Drawings (SCD) TC-22.10 and TC-22.20.

27. All welds shall be inspected according to the requirements of C&MS 630.06 and AWS D1.1 Structural Welding Code - Steel. A report of the welding inspection shall be submitted to the ODOT Office of Material Management Structural Welding and Materials Engineer.

28. Saddle shims can be aluminum castings meeting the requirements of C&MS 730.14, performed bearing pads meeting the requirements of C&MS 516 and 711.21 or ASTM A 105 Grade 36 steel galvanized according to C&MS 711.03.