**NOTES**

1. The design of the Sign Support Foundations presented on this drawing meet the requirements of the AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, First Edition 2015 (LRFD-1), and all interim releases prior to the last date of the project.

2. The anchor bolts to be located near the top and bottom of the anchor bolts.

3. g, may be deeper as required in the plans.

4. When required by local conditions and approved by the Engineer, alternative foundation designs are acceptable. Alternate foundation design calculations and drawings shall be stamped by a Professional Engineer registered in the State of Ohio and shall be submitted to the Engineer for review and approval.

5. Anchor bolts shall meet the requirements of C&MS 630, 711, 502, 130, and 132 if accept that 130, 132 shall be modified to require the galvanizing limits to be full length of the anchor bolts not at least 2 inches beyond the threads. Threads shall be UNC-2B, and may be either unthreaded, and coarse threaded. The threaded end of anchor bolt shall be headed or threaded with a heavy hex nut. Provide smooth head not anchor bolt material threaded at the ends or over its entire length. Hex nuts shall be ASTM A563, American Standard heavy hex, Grade 4H or A 194 Grade 2H, ASTM A193 B7, welded plate washer shall be ASTM Grade 98 or Grade 50. All nuts and plate washers shall be galvanized per C&MS 711.03. Anchor bolts shall meet the requirements of ASTM A 495 Type 1 (hot-dip galvanized) according to ASTM A 153.

6. All locations where the existing slope is 6:1 or greater, the buried depth of foundation shall apply to the low side of the slope. Set the top of the foundation 2" above the existing surface on the high side of the slope. The additional depth of foundation necessary to meet these requirements shall be added to the total depth of foundation. Use 601 bars to tie the anchor bolts to the 603 bars.

7. A special foundation design will be required when cohesive soil with an undrained shear strength of less than 2000 lb./sq.ft. or granular soil with an angle of internal friction less than 35 degrees and a density less than 120 lb./cu.ft is encountered. Special foundation designs shall meet the requirements of Note 4.

8. *Length of Vertical Steel = D + 5" (all bar sizes) (See table below for number and diameter of bars)*

9. All reinforcing steel shall be epoxy coated and comply with all other requirements in accordance with C&MS 509. Lap all rebars per the lap length table in C&MS 509. Tie bar hooks not required.