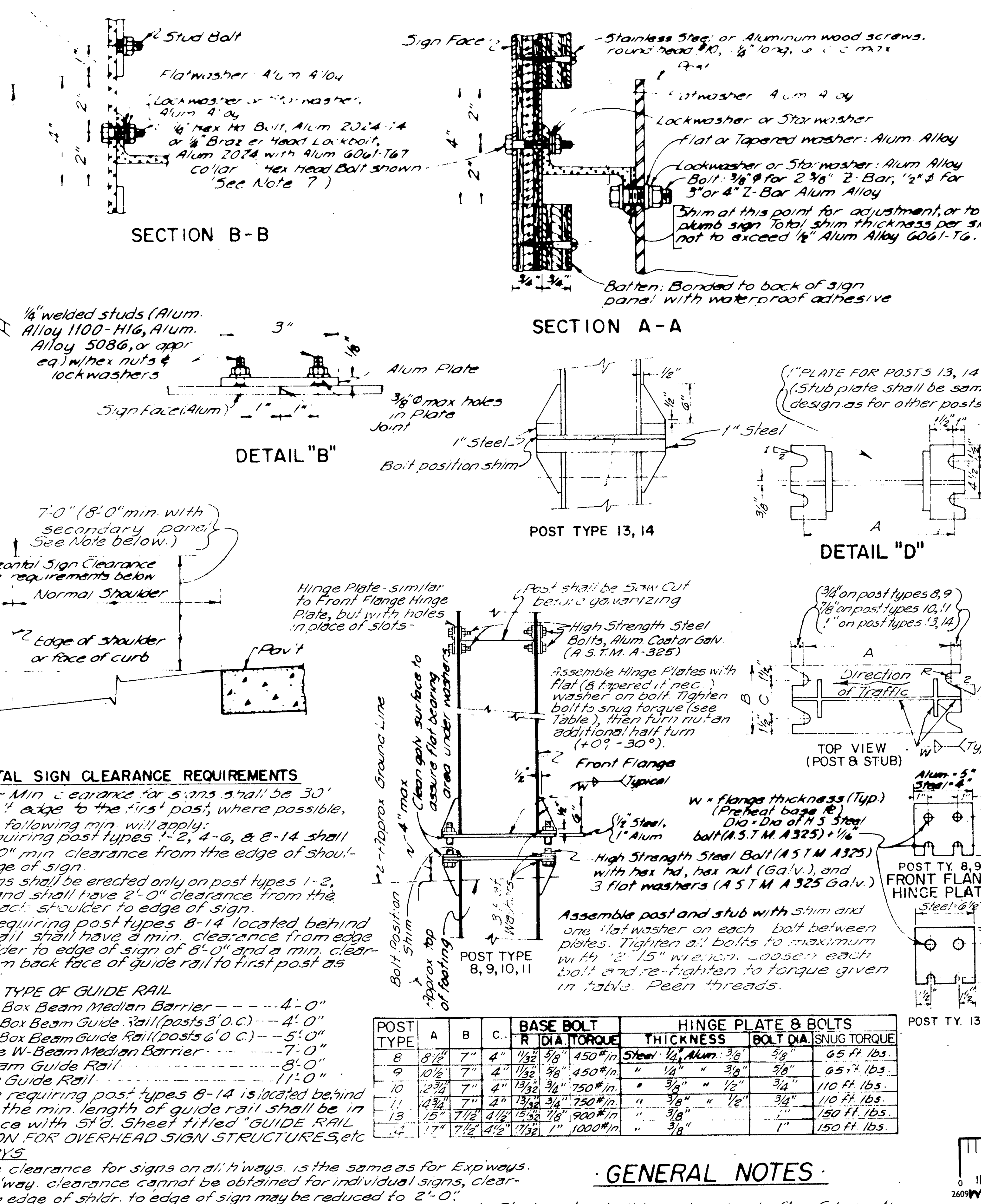
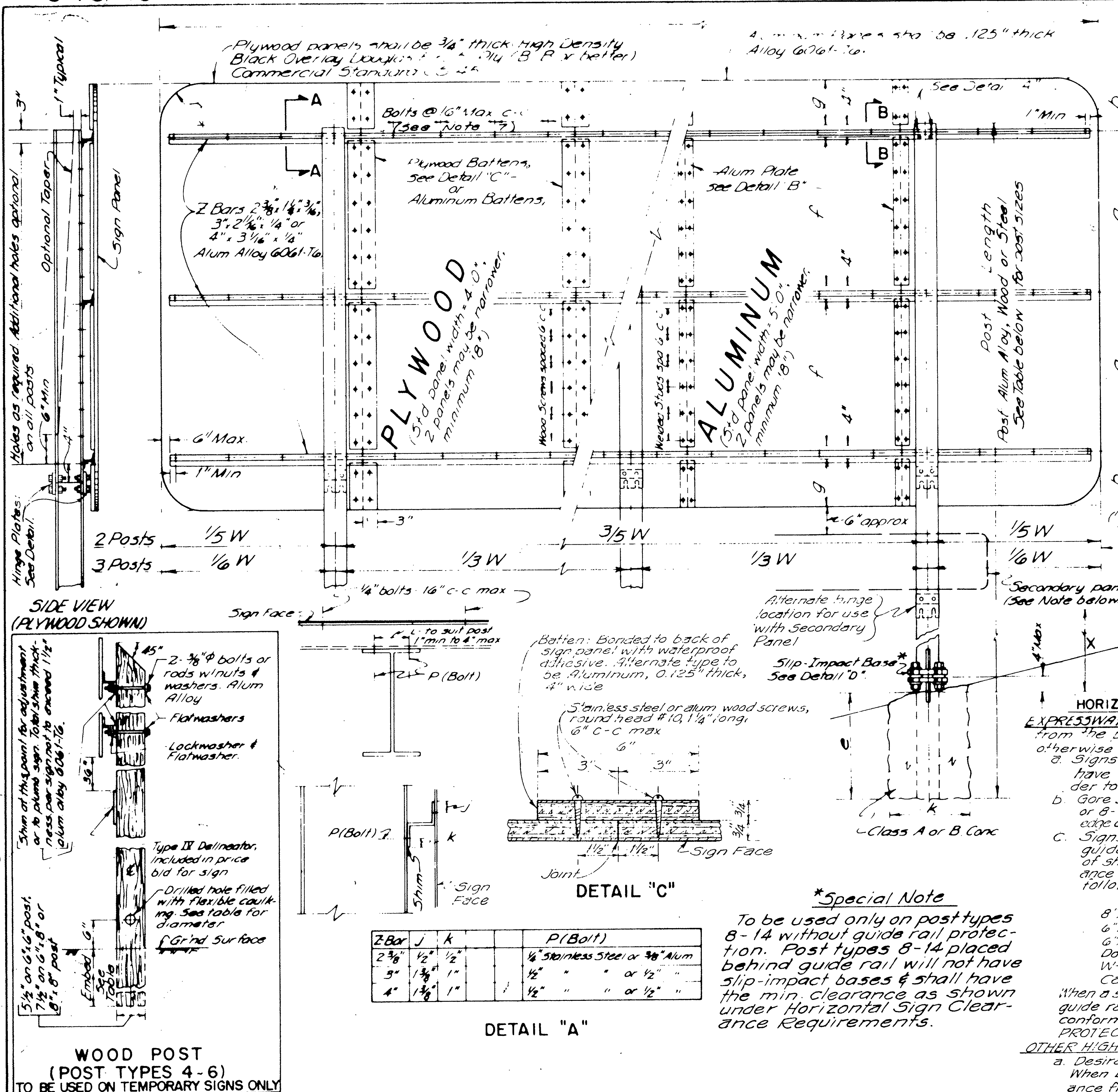


Checked by J. Parker  
Treated by A. Guglielmi  
Made by W. Stohner



| POST SPACINGS & APPROPRIATE STRINGER (Z-BAR) SIZES |       |       |       |           |                 |       |       |       |           |
|----------------------------------------------------|-------|-------|-------|-----------|-----------------|-------|-------|-------|-----------|
| POST SPACING (2 POSTS)                             |       |       |       |           | Z-BARS          |       |       |       |           |
| W                                                  | 3/4 W | 1/2 W | 1/4 W | WIND ZONE | W               | 3/4 W | 1/2 W | 1/4 W | WIND ZONE |
| 3'-0" - 4'-0"                                      | 2'-0" | 1'-6" | 1'-2" | A         | 3'-0" - 4'-0"   | 2'-0" | 1'-6" | 1'-2" | A         |
| 4'-0" - 5'-0"                                      | 2'-0" | 1'-6" | 1'-2" | A         | 4'-0" - 5'-0"   | 2'-0" | 1'-6" | 1'-2" | A         |
| 5'-0" - 6'-0"                                      | 2'-0" | 1'-6" | 1'-2" | A         | 5'-0" - 6'-0"   | 2'-0" | 1'-6" | 1'-2" | A         |
| 6'-0" - 7'-0"                                      | 2'-0" | 1'-6" | 1'-2" | A         | 6'-0" - 7'-0"   | 2'-0" | 1'-6" | 1'-2" | A         |
| 7'-0" - 8'-0"                                      | 2'-0" | 1'-6" | 1'-2" | A         | 7'-0" - 8'-0"   | 2'-0" | 1'-6" | 1'-2" | A         |
| 8'-0" - 9'-0"                                      | 2'-0" | 1'-6" | 1'-2" | A         | 8'-0" - 9'-0"   | 2'-0" | 1'-6" | 1'-2" | A         |
| 9'-0" - 10'-0"                                     | 2'-0" | 1'-6" | 1'-2" | A         | 9'-0" - 10'-0"  | 2'-0" | 1'-6" | 1'-2" | A         |
| 10'-0" - 11'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 10'-0" - 11'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 11'-0" - 12'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 11'-0" - 12'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 12'-0" - 13'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 12'-0" - 13'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 13'-0" - 14'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 13'-0" - 14'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 14'-0" - 15'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 14'-0" - 15'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 15'-0" - 16'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 15'-0" - 16'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 16'-0" - 17'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 16'-0" - 17'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 17'-0" - 18'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 17'-0" - 18'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 18'-0" - 19'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 18'-0" - 19'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 19'-0" - 20'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 19'-0" - 20'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 20'-0" - 21'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 20'-0" - 21'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 21'-0" - 22'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 21'-0" - 22'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 22'-0" - 23'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 22'-0" - 23'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 23'-0" - 24'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 23'-0" - 24'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 24'-0" - 25'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 24'-0" - 25'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 25'-0" - 26'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 25'-0" - 26'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 26'-0" - 27'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 26'-0" - 27'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 27'-0" - 28'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 27'-0" - 28'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 28'-0" - 29'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 28'-0" - 29'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 29'-0" - 30'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 29'-0" - 30'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 30'-0" - 31'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 30'-0" - 31'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 31'-0" - 32'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 31'-0" - 32'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 32'-0" - 33'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 32'-0" - 33'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 33'-0" - 34'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 33'-0" - 34'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 34'-0" - 35'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 34'-0" - 35'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 35'-0" - 36'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 35'-0" - 36'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 36'-0" - 37'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 36'-0" - 37'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 37'-0" - 38'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 37'-0" - 38'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 38'-0" - 39'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 38'-0" - 39'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 39'-0" - 40'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 39'-0" - 40'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 40'-0" - 41'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 40'-0" - 41'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 41'-0" - 42'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 41'-0" - 42'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 42'-0" - 43'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 42'-0" - 43'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 43'-0" - 44'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 43'-0" - 44'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 44'-0" - 45'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 44'-0" - 45'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 45'-0" - 46'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 45'-0" - 46'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 46'-0" - 47'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 46'-0" - 47'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 47'-0" - 48'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 47'-0" - 48'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 48'-0" - 49'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 48'-0" - 49'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 49'-0" - 50'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 49'-0" - 50'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 50'-0" - 51'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 50'-0" - 51'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 51'-0" - 52'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 51'-0" - 52'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 52'-0" - 53'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 52'-0" - 53'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 53'-0" - 54'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 53'-0" - 54'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 54'-0" - 55'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 54'-0" - 55'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 55'-0" - 56'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 55'-0" - 56'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 56'-0" - 57'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 56'-0" - 57'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 57'-0" - 58'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 57'-0" - 58'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 58'-0" - 59'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 58'-0" - 59'-0" | 2'-0" | 1'-6" | 1'-2" | A         |
| 59'-0" - 60'-0"                                    | 2'-0" | 1'-6" | 1'-2" | A         | 59'-0" - 60'-0" | 2'-0" | 1'-6" | 1'-2" | A         |

| 2-POST SIGNS                                         |                                                |           |       | 3-POST SIGNS |                                                |           |       | MAX TOTAL SIGN PANEL AREAS (SQ.FT.) FOR VARIOUS VALUES OF X (EDGE OF PAVEMENT TO GROUND SURFACE) |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |
|------------------------------------------------------|------------------------------------------------|-----------|-------|--------------|------------------------------------------------|-----------|-------|--------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| TYPE                                                 | POST                                           | EMBEDMENT |       | WIND ZONE    | POST                                           | EMBEDMENT |       | WIND ZONE A                                                                                      |     |     |     |     |     |     |     | WIND ZONE B |     |     |     |     |     |     |     | WIND ZONE C |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |
|                                                      |                                                | K         | E     |              |                                                | K         | E     | X                                                                                                | X   | X   | X   | X   | X   | X   | X   | X           | X   | X   | X   | X   | X   | X   | X   | X           | X   |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |
|                                                      | MATERIAL & SIZE                                | DIAM.     | DEPTH |              | MATERIAL & SIZE                                | DIAM.     | DEPTH | +4                                                                                               | +2  | 0   | -2  | -4  | -6  | -8  | -10 | -12         | -14 | -16 | +4  | +2  | 0   | -2  | -4  | -6          | -8  | -10 | -12 | -14 | -16 | +4  | +2  | 0   | -2  | -4  | -6  | -8 | -10 | -12 | -14 | -16 |
| 1                                                    | 5" L 3 1/2" x 2 1/2" x 1/4" or Alum 4W(A) 1139 | 1'-0"     | 4'-0" | 1            | 5" L 3 1/2" x 2 1/2" x 1/4" or Alum 4W(A) 1139 | 1'-0"     | 4'-0" | 52                                                                                               | 23  | 19  | 15  | 13  | 10  | 7   | 6   | 5           | 5   | 23  | 17  | 13  | 11  | 9   | 8   | 5           | 5   | 4   | 4   | 3   | 19  | 14  | 11  | 9   | 7   | 6   | 4   | 4  | 3   | 3   | 3   | 3   |
| 2                                                    | 5" L 4" x 3 1/2" x 1/4" or Alum 4W(A) 11788    | 1'-0"     | 4'-0" | 2            | 5" L 4" x 3 1/2" x 1/4" or Alum 4W(A) 11788    | 1'-0"     | 4'-0" | 44                                                                                               | 33  | 27  | 22  | 19  | 15  | 11  | 10  | 9           | 8   | 33  | 24  | 19  | 16  | 13  | 11  | 8           | 8   | 6   | 6   | 5   | 27  | 20  | 15  | 13  | 10  | 9   | 6   | 5  | 4   | 4   | 4   | 4   |
| These posts are same as Reg. Warning Pole Mkts posts |                                                |           |       |              |                                                |           |       |                                                                                                  |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |
| 4                                                    | Wood 6" x 6" Nom with 2" hole                  | None      | 5'-0" | 4            | Wood 6" x 6" Nom with 2" hole                  | None      | 5'-0" | 68                                                                                               | 70  | 57  | 49  | 40  | 33  | 26  | 23  | 21          | 20  | 18  | 67  | 53  | 42  | 36  | 30  | 24          | 19  | 17  | 15  | 14  | 13  | 55  | 42  | 34  | 28  | 24  | 19  | 15 | 13  | 12  | 11  | 10  |
| 5                                                    | Wood 6" x 6" Nom with 3" hole                  | None      | 6'-0" | 5            | Wood 6" x 6" Nom with 3" hole                  | None      | 6'-0" | 121                                                                                              | 98  | 81  | 69  | 56  | 46  | 38  | 34  | 32          | 29  | 26  | 92  | 73  | 58  | 51  | 42  | 34          | 28  | 25  | 23  | 20  | 19  | 76  | 59  | 49  | 41  | 34  | 27  | 22 | 20  | 18  | 16  | 15  |
| 6                                                    | Wood 8" x 8" Nom with 3" hole                  | None      | 6'-0" | 6            | Wood 8" x 8" Nom with 3" hole                  | None      | 6'-0" | 165                                                                                              | 136 | 115 | 98  | 79  | 66  | 56  | 51  | 46          | 42  | 39  | 127 | 103 | 84  | 73  | 60  | 50          | 41  | 37  | 34  | 31  | 28  | 105 | 83  | 70  | 59  | 49  | 39  | 33 | 29  | 26  | 24  | 22  |
| These posts are embedded in earth only               |                                                |           |       |              |                                                |           |       |                                                                                                  |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |
| 8                                                    | Steel 60B.5 or Alum 6W 5.40                    | 1'-6"     | 5'-0" | 8            | Steel 60B.5 or Alum 6W 5.40                    | 1'-6"     | 5'-0" | 143                                                                                              | 117 | 99  | 83  | 68  | 56  | 47  | 43  | 39          | 36  | 33  | 150 | 121 | 101 | 82  | 51  | 41          | 34  | 31  | 28  | 25  | 24  | 91  | 72  | 59  | 47  | 34  | 27  | 24 | 22  | 20  | 19  |     |
| 9                                                    | Steel 60B.10 or Alum 6W 5.90                   | 1'-6"     | 5'-0" | 9            | Steel 60B.10 or Alum 6W 5.90                   | 1'-6"     | 5'-0" | 200                                                                                              | 167 | 140 | 117 | 98  | 83  | 71  | 64  | 59          | 54  | 50  | 184 | 147 | 121 | 98  | 74  | 62          | 52  | 47  | 42  | 39  | 36  | 127 | 103 | 86  | 73  | 60  | 49  | 41 | 37  | 34  | 31  | 28  |
| 10                                                   | Steel 10B.11.5 or Alum 10W 7.30                | 2'-0"     | 5'-0" | 10           | Steel 10B.11.5 or Alum 10W 7.30                | 2'-0"     | 5'-0" | 270                                                                                              | 224 | 190 | 160 | 137 | 118 | 103 | 94  | 86          | 79  | 73  | 212 | 177 | 147 | 123 | 104 | 88          | 76  | 68  | 62  | 57  | 53  | 174 | 143 | 121 | 101 | 83  | 71  | 59 | 54  | 50  | 45  | 42  |
| 11                                                   | Steel 12B.14 or Alum 12I 10.99                 | 2'-6"     | 5'-0" | 11           | Steel 12B.14 or Alum 12I 10.99                 | 2'-6"     | 5'-0" | 354                                                                                              | 302 | 260 | 222 | 194 | 169 | 149 | 134 | 125         | 116 | 107 | 288 | 238 | 200 | 170 | 144 | 126         | 109 | 100 | 91  | 84  | 78  | 238 | 200 | 167 | 139 | 118 | 101 | 87 | 79  | 73  | 67  | 62  |
| Steel 12B.14 or Alum 12I 10.99                       |                                                |           |       |              |                                                |           |       |                                                                                                  |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |
| 13                                                   | Steel 12W 27 or Alum Tube 12" x .750 wall      | 2'-6"     | 7'-0" | 13           | Steel 12W 27 or Alum Tube 12" x .750 wall      | 2'-6"     | 7'-0" |                                                                                                  |     |     |     |     |     | 354 | 318 | 286         | 262 | 244 | 226 | 212 |     |     |     |             |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |
| 14                                                   | Steel 14W 34                                   | 3'-0"     | 9'-0" | 14           | Steel 14W 34                                   | 3'-0"     | 9'-0" |                                                                                                  |     |     |     |     |     |     |     |             |     |     | 344 | 320 | 298 |     |     |             |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |
| See Special Note above *                             |                                                |           |       |              |                                                |           |       |                                                                                                  |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |

I Total Post Length = "X" + Embedment Depth (E) + Sign Height (H) + height of sign face above pav't - g

II Interpolate table for other values of "X"

(a) Plus values of "X" indicate ground surface above pav't edge

(b) Minus values of "X" indicate ground surface below pav't edge

III Each post shall be selected separately

IV Embedment Depth shown in the table is for Earth Embedment. When sound solid rock is encountered, posts shall be founded into rock a depth equal to Embedment Diameter (K) or to Depth (E), whichever is less

Anchorage diameter in rock may be reduced to suit post

2 At the Contractor's option, panels longer than standard size may be used to minimize or eliminate joints

3 Unless otherwise shown, all hardware shall be Alum Alloy 6061-T6, 6262-T9, 2024-T4 or 7075-T6, or Stainless Steel A 5 T M. A193B8 and A194-B.

4 All 2024-T4 hardware shall be coated with Type 205 Finish in accordance with 719-02

5 Components of lockbolts may have modified tempers in cold-formed elements

6 The Post Size Table at the left is for posts fabricated of A-36 steel, and alum. alloy 6061-T6. For posts fabricated of A-242 steel, INCREASE the sign areas in the table by 25%. Posts for signs with slip-impact bases must be of weldable quality

7 Overhead panels shall be constructed as shown except:

(a) All lockbolts, bolts, nuts & washers shall be stainless steel, threads on threaded bolts must be buried or tack welded @ after tightening to prevent loosening.

(b) All stringers may be 2 1/2" x 1 1/2" x 1/4".

(c) Vertical brackets, unless otherwise shown on the plans, shall support not more than 6 ft. of sign width.

(d) When signs are lighted, there shall be a minimum of two vertical brackets per light fixture

⊗ Type E 410 Welding Rods (Note 7)