

ELEVATION	N.T.S.	1	ISOMETRIC VIEW	N.T.S.	2	EXTRUSION "D"	N.T.S.	3	CORNER DETAIL	N.T.S.	4
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**4' x 16' SIGN**

**1. GOVERNING CODES:**

SOUTH FLORIDA BUILDING CODE (ASCE 7-98) 120 MPH, EXP. C  
 SOUTHERN STANDARD BUILDING CODE 138 MPH  
 UNIFORM BUILDING CODE, 1997 124 MPH, EXP. C

**2. DESIGN LOADS:**

DEAD LOAD 6 LBS. PER SQ. FT.  
 WIND LOAD 66.0 LBS. PER SQ. FT.

**3. RESTRICTIONS:**

A. THE DESIGN LOADS ABOVE ARE BASED ON A HEIGHT ABOVE GROUND OF 25 FEET MAXIMUM.

**4. LIMITATIONS:**

THE DESIGN AND CONSTRUCTION OF THE SIGN SHOWN HEREIN CONFORMS TO THE ABOVE GOVERNING CODES WHEN INSTALLED AS SHOWN. ANY ALTERATIONS OF THIS DRAWING WILL VOID THE SHEET. THIS SHEET IS VALID ONLY IF SIGNED IN INK BY THE ENGINEER.

**5. MATERIALS:**

A. ALUMINUM - ALLOY 6061-T6 OR 6005-T5  
 BOLTS - TO BE UNDERWRITERS LABORATORY ASTM F493 SIGN PANELS - USE ONLY APPROVED FLASHINGS.  
 B. PROVIDE ISOLATION OF DISSIMILAR MATERIALS.

**6. WORKMANSHIP:**

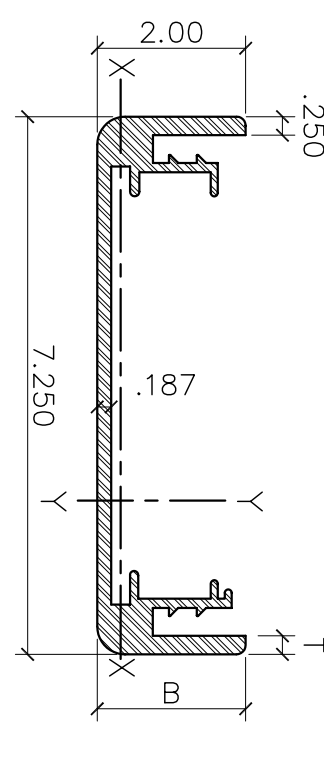
ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING CODE (LATEST EDITION) AND THE LOCAL BUILDING OFFICIAL. WELDING SHALL CONFORM TO ALL APPLICABLE CODES. CERTIFIED WELDERS ARE REQUIRED.

**7. WELD SPECIFICATIONS:**

STEEL WELDING SHOULD BE PERFORMED BY CERTIFIED WELDERS. WELDS USING E70 ELECTRODES OR WIRES AND AWS APPROVED SYSTEMS AND PROCEDURES ARE ACCEPTABLE. PROVIDE PERIODIC SPECIAL INSPECTION FOR FIELD WELDING IN ACCORDANCE WITH UBC SECTION 1701.5.

ALUMINUM WELDING SHALL BE DONE IN ACCORDANCE WITH LATEST EDITION OF THE AMERICAN WELDING SOCIETY D12 STRUCTURAL WELDING CODE ALUMINUM.

**EXTRUSION "C"**



X-X AXIS  
 A = 2.50  
 I = 1.03  
 S = 1.845 BOTTOM  
 S = 0.630 TOP  
 Y-Y AXIS  
 A = 2.50  
 I = 18.23  
 S = 5.028 LEFT  
 S = 5.028 RIGHT

**ALLOWABLE STRESSES:**

BENDING TENSION:  
 X-X AXIS Fb = 28 KSI  
 Y-Y AXIS Fb = 19 KSI  
 BENDING COMPRESSION:  
 X-X AXIS Fb = 19 KSI  
 FLANGES:  
 b/t = 2.00 / .250 = 8.0 < 9.8  
 Fb = 28 KSI

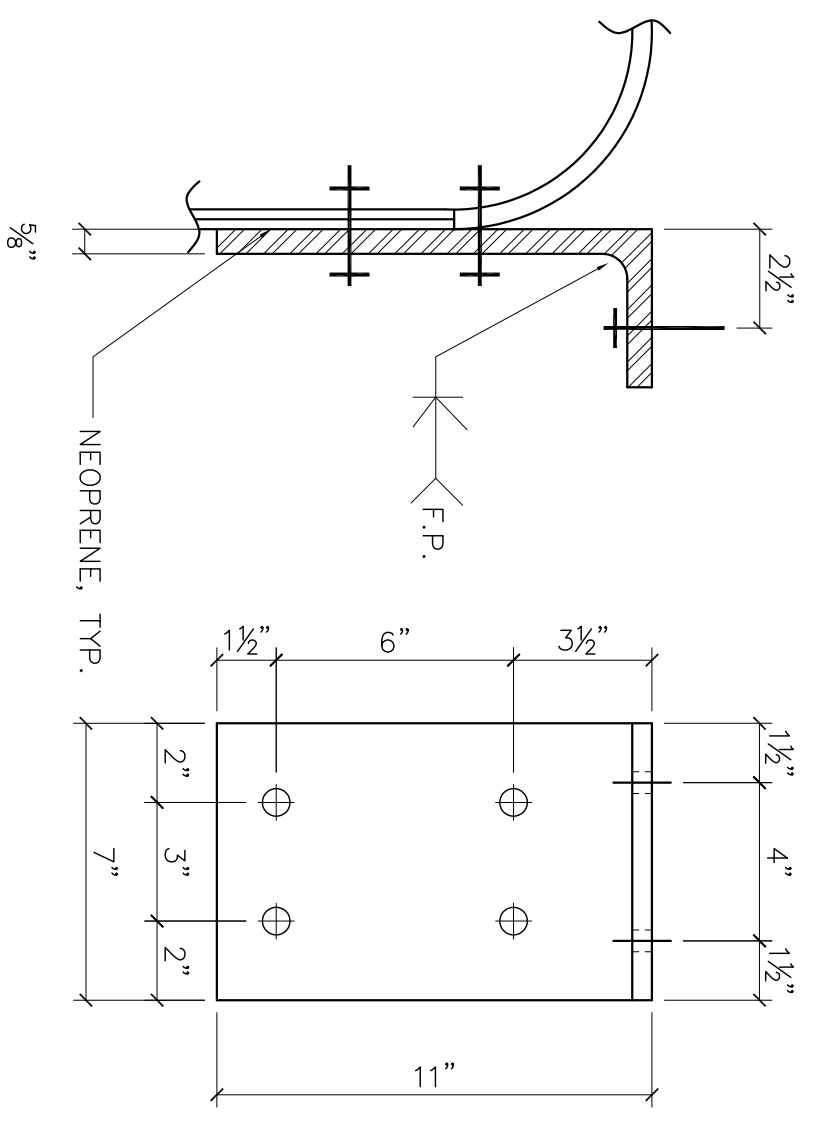
**Y-Y AXIS FLANGES:**

b / t = 2.00 / .250 = 8.0  
 Fb = 27.3 - 0.93 b / t = 19.9 KSI  
 WEB:  
 Lb / ry = 12 x 12 / 2.78 = 51.86  
 Fb = 23.9 - 0.124 Lb = 17.5 KSI

**CONN. AT SIGN BASE**

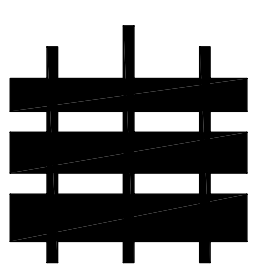
N.T.S.

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HANGING MONUMENT  
 SIGN ELEVATION, EXTRUSIONS  
 AND MISCELLANEOUS DETAILS

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REVISIONS	BY	DATE
1	WV	8/06/01