GENERAL NOTES:

1. Curved marker post shall be installed with galvanized steel hardware meeting the following requirements: Bases for nuts and washers shall meet the requirements of ASTM A-483, Class C. Galvanizing for steel mounting supports shall meet the requirements of MIL-D-26095A, or ASTM A-453, Class C.
NEWTOK AIRPORT
CENTRAL REGION
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DR.
ANCHORAGE, AK 99507
(907) 522-1707

CERT. OF AUTH. NO. AECC111

DOUBLE OR SINGLE SWING GATE

GENERAL NOTES:
1. Details shown are to indicate general design only.
   Dimensions may vary slightly among the manufacturers.
2. Gate fabric shall be of the same design and height
   for the same gate type.
3. Gate frames shall be furnished with knuckle unfinished
   top and bottom.
4. Concrete footings shall be of the same depth as and
greater than a minimum 1.23 times larger except as
   otherwise noted in these drawings.
5. Gate frames may be fabricated by welding or riveting
   and shall be intended for field erection. 

PEDESTRIAN GATE

TYPICAL TRUSS ROD TIGHTENERS
**SIGN BRACING PLACEMENT**

- **Use one brace when \( W \leq 18" \)**
- **Use two braces when \( 18" < W < 48" \)**
- **Use three braces when \( W \geq 48" \)**

**Position of brace may be varied to match pre-drilled mounting holes in panel.**

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**TUBE POST SIGN BRACING**

**Effective Brace Length**

<table>
<thead>
<tr>
<th>Sign Width (in)</th>
<th>Effective Brace Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>24&quot;</td>
</tr>
<tr>
<td>30</td>
<td>29&quot;</td>
</tr>
<tr>
<td>40</td>
<td>34&quot;</td>
</tr>
<tr>
<td>50</td>
<td>39&quot;</td>
</tr>
<tr>
<td>60</td>
<td>44&quot;</td>
</tr>
</tbody>
</table>

- < 30" No bracing required and use square tube.
- Adjust because of bracing so that bolts and washers will miss the sign legend.

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**RIVET DETAIL**

- **End brace detail**
- **Plan view**

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**DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES**

4111 Aviation Ave., Anchorage, Alaska 99502

Phone: (907) 269-0590

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**NEWTON AIRPORT**

**CENTRAL REGION**

**STATE OF ALASKA**

**PLANS DEVELOPED BY:**

R&M Consultants, Inc.

9101 Vanguard Dr.

Anchorage, AK 99507

Cert. of Auth. No. AECC11
GENERAL NOTES

1. Furnish sign posts with NCHRP 550 or NASH compliant FMN-approved frangible couplings designed to break away safely when struck from any direction. The frangible couplings shall not have specific installation torque requirements.

2. Furnish frangible coupling systems with bolt-on flanges.

3. Details on this sheet illustrate only the general components of a frangible coupling system, and are not intended to specify a particular product.

4. Install frangible base plates as specified by the manufacturer and hinged flanges when multiple posts are used to support a sign. Do not use round pipes.

5. Install the components of the breakaway system, including hinged flanges, in accordance with the written instructions of the system manufacturer.


7. Spiral reinforcing steel may be substituted for hoops in concrete foundation. Spiral option shall consist of 3 bars spiralled with 6" pitch with three full turns at the top and one full turn at the bottom.

8. Install the concrete anchors using a rigid template. Locate the anchors on centers and within tolerances specified by the manufacturer.

9. Install the anchors in fresh concrete as recommended by the manufacturer. Adjust the template's final position until it is level. Remove and replace all foundations that need more than 3 wrenches under any 1 coupling or more than a total of 3 wrenches under any pair of couplings to plumb the post.

10. Drill the holes for attaching brackets before the sign posts are hot-dip galvanized. Test fit templates in the holes to ensure the brackets can be installed squarely to the posts.