**GENERAL NOTES**

1. ALL SIGN PANELS USED ON FLASHING BEACONS ARE CLASS II AND SHALL BE FABRICATED IN ACCORDANCE WITH:
   A. PANELS SHALL BE SINGLE SHEET ALUMINUM 0.050 MINIMUM THICKNESS.
   B. BACKING ZEE IS 3/4" X 2 1/2" IN 2.20 LBS PER FT ALUMINUM.
   C. ALL SIGNS SHALL BE FABRICATED USING INTEGRAL SLEDGING CUTTING TO ACHIEVE THE TYPE SHOWN ON THE PLANS.
   D. BOLTS, U-NUTS, NUTS AND METAL WORKS SHALL BE GALVANIZED OR COLD DRAWN PLATED.

2. INSTALLATION DESIGN CONFIRMS WITH ARIZO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGN SUPPORTS AND TRAFFIC SIGNS.
   A. STEEL PIPE POST ANCHORS PLATE AND BREAK-AWAY PLATES SHALL BE 2024-T374 ALUMINUM.
   B. HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL BE CONFORM TO ASTM A325 AND SHALL BE GALVANIZED OR COLD DRAWN PLATED.
   C. HOLES SHALL BE DRILLED AND DRILLED TO THE BEND PIECES SHALL BE BENT PRIOR TO INSTALLATION.
   D. ALL BOLTING IS TO BE CONTINUOUS AND IN ACCORDANCE WITH CURRENT ANSI SPECIFICATIONS.

3. A PIPE SUPPORT OF THIN (0.020) GALVANIZED STEEL SHAFT, FABRICATED TO MATCH BREAK-AWAY PLATE DIMENSIONS BUT WITH HOLES RATHER THAN SLEDGES, SHALL BE USED TO RESTANION DUE TO WIND VIBRATION.

4. PIPE SUPPORT VERTICAL PLATE MINIMUM CLEARANCE IS 12 FT AND THE SIGN PANEL REQUIREMENTS WILL BE AS SHOWN ON THE PLANS AS DETERMINED BY CROSS-SECTION BEYOND THE POINTS WHERE INSTALLATION HINGE IS LOCATED.

5. CONCRETE FOOTINGS FOR FLASHING BEACON INSTALLATIONS SHALL BE DETERMINED AND STRUCTURAL CONCRETE (CLASS 216).

**TYPICAL ELEVATION FACINGS TRAFFIC**

**STANDARD PLAN NO.**

**S-614-14**

**Sheet No. 1 of 3**
GENERAL NOTES

1. POLE AND PEDESTAL MUST BE DESIGNED TO MEET THE REQUIREMENTS OUTLINED IN THE "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS" PUBLISHED BY AASHO, FOR A WIND VELOCITY OF 150 MPH.

2. THE CONTRACTOR SHALL SUBMIT TWO SETS OF WORKING DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO IN ACCORDANCE WITH SECTION 100.02 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

DESIGN DATA

THE DESIGNS HEREIN ASSUME THAT FLASHING BEACONS ARE INSTALLED WITHIN THE ROADWAY PREAM WITH THE FOLLOWING SOIL PARAMETERS:

- SOIL DENSITY, \( \rho = 1.2 \) LBD/FT³
- SOIL COHESION, \( C = 750 \) LBD/FT²
- SOIL DURABILITY, D = 500 FOR MEDIUM DENSE COHESIONLESS SOIL
- S = 3.0 FOR FRICTION RESISTANCE

CONTACT THE ENGINEER IF THE FLASHING BEACON WILL NOT BE INSTALLED WITHIN THE ROADWAY PREAM OR IF ANY OF THE FOLLOWING SOIL CONDITIONS ARE ENCOUNTERED DURING DRILLING:

- THE SOIL HAS A HIGH ORGANIC CONTENT OR CONSISTS OF SATURATED SILT AND CLAY.
- THE SITE NEEDS SUPPORT, THE WEIGHT OF THE DRILLING ROLL.
- THE FOUNDATION SOILS ARE UNSUITABLE.
- DEEP DEPRESION IS ENCOUNTERED.
- A HIGH OCTANE WATER TABLE IS ENCOUNTERED.
- LARGE BOULDERS ARE ENCOUNTERED.

FOOTING DESIGN IS BASED ON 150 MPH WIND LOAD ON A 48 IN. X 48 IN. DIAMOND SIGN PANEL MOUNTED 9 FT. ABOVE THE GROUND WITH A 24 IN. X 24 IN. RECTANGULAR PLATE FOUNDATION AND A FLASHING BEACON 12 IN. ABOVE IF A SIGN CONFIGURATION IS PROPOSED THAT EXCEEDS THESE DIMENSIONS, THE FOOTING DESIGN MUST BE ENGINEERED AND DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO.

FOOTING NOTES

1. HEX NUTS
2. SQUARE NUTS
3. HARD NUTS SHALL BE PROVIDED.
4. 4 IN. WIN NON-SHINNABLE
5. GRADE COVER ROUGH FOUNDATION
6. INSTALL ANCHOR BOLTS (SUGGESTED WITH MALLEABLE MANUFACTURERS’ TEMPLATE PRINT (SUGGESTED WITH BOLTS))
7. MINIMUM OVERLAP OF 12 IN.
8. 1/2 IN CLEARANCE FOR HOOPS
9. PULL BOX