

Note to Designer:  
The information presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

04/19

PRIOR DISTRIBUTION DATE

GENERAL NOTES:

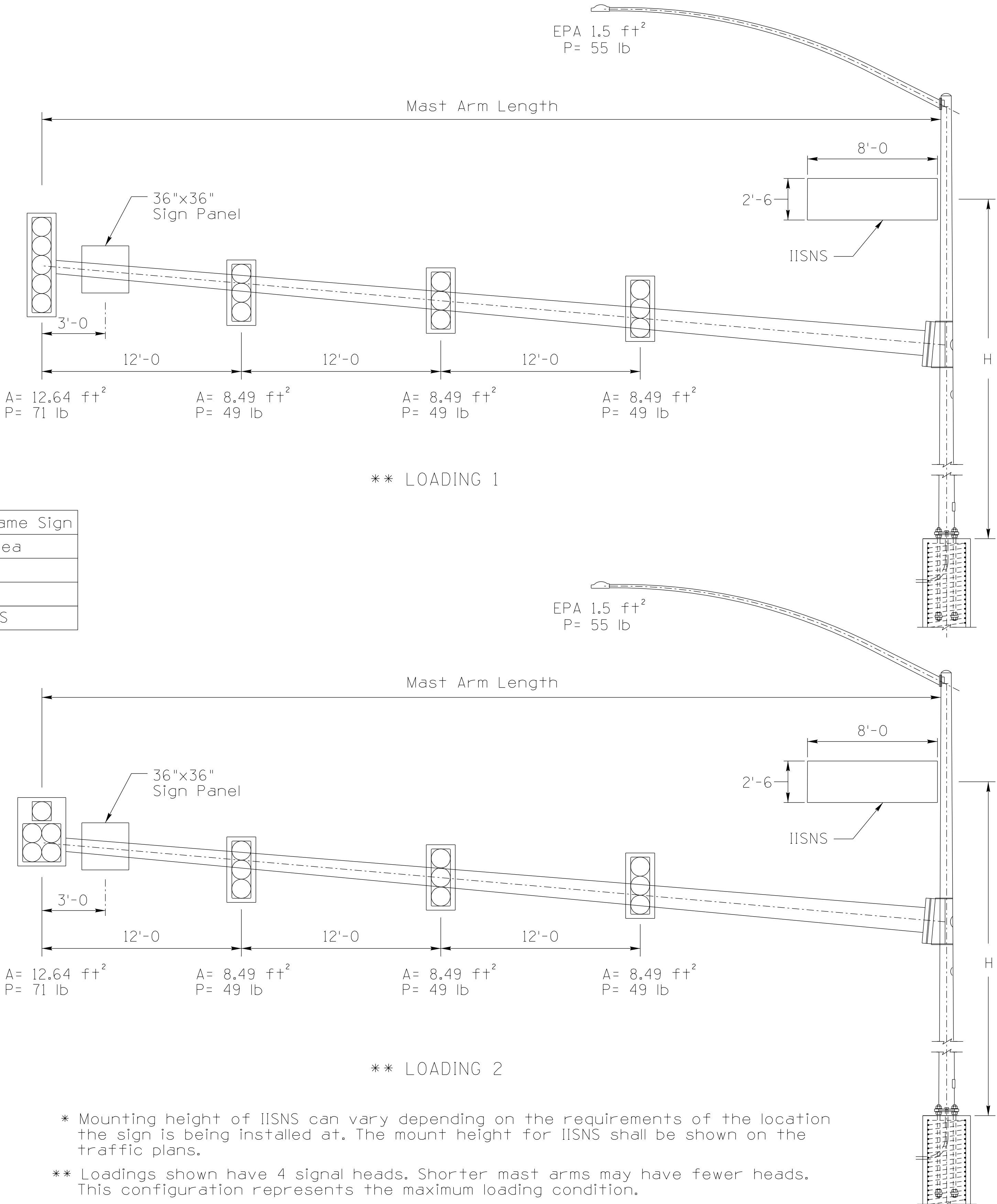
- All materials and construction shall conform to the requirements of the Arizona Department of Transportation Standard Specifications for Road and Bridge Construction.
- Poles and mast arms design shall comply with the requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th Edition (2013) including the 2015, 2019, and 2020 interim revisions.
- Signed and sealed shop drawings shall be submitted to the Engineer for review and approval prior to fabrication in accordance with the Standard Specifications, unless the manufacturer has been granted approval on the Department's most recently published Approved Product List (APL).
- All dimensions not shown on the plans are dependent on the manufacturer's design, and shall be shown on the shop drawings.
- Vibration mitigation devices shown are only schematic. The type of device used, and the device's location shall be the responsibility of the manufacturer's to show as part of the shop drawings.
- A vibration mitigation device shall be installed on all mast arms near the outside tip, per the manufacturer's requirements.
- For inboard tenon, when specified, see tenon detail on T.S. 9-1.
- Poles shall have a continuous taper.
- All dimensions are nominal.

DESIGN CRITERIA:

Fatigue Category II  
Natural Wind Gust: 90 mph (Based on 3-second gust)  
Galloping: Not included  
Truck Gust: 55 mph

FOUNDATION NOTES:

- The foundation hole shall be augered and class "S" (3,500 psi) concrete shall be poured against undisturbed compacted earth.
- Unstable soil and/or steep slope may require a deeper foundation. See Standard Specifications for additional requirements.
- If pole foundation is within or adjacent to a sidewalk, top of the pole foundation shall be flush with the abutting or adjacent sidewalk.
- Once the pole installation is complete, the open space between the base plate and top of foundations shall be grouted.
- A 25 ft coil of #4 bare copper conductor or a 14 inch square copper ground plate shall be installed before concrete is poured. The coil or the ground plate shall be connected to the pole grounding lug in the hand hole. The coil or ground plate shall be covered with 6 inches of fill.



- \* Mounting height of IISNS can vary depending on the requirements of the location the sign is being installed at. The mount height for IISNS shall be shown on the traffic plans.
- \*\* Loadings shown have 4 signal heads. Shorter mast arms may have fewer heads. This configuration represents the maximum loading condition.

STANDARDS ENGINEER A. ALZUBI	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC SIGNAL AND LIGHTING STANDARD DRAWINGS</b>	
RECOMMENDED FOR APPROVAL GROUP MANAGER M. HANNA	GENERAL NOTES FOR TRAFFIC SIGNAL AND LIGHTING POLES WITH MAXIMUM LOADING CASE	DRAWING NO. T-SL 4.11
APPROVED STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION 11/22 DATE		