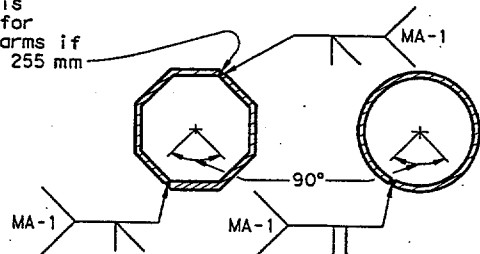


Stainless steel bands and cast bracket as in "Astro-Brac" with 1 1/2" Dia Threaded Coupling.

**BRACKET ASSEMBLY
OPTION C**

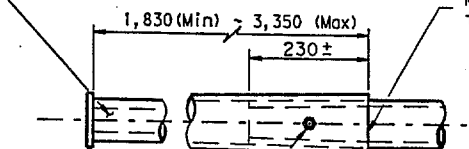
Second longitudinal Seam Weld is permitted for polygonal arms if D₁ exceeds 255 mm



Longitudinal Seam Weld must be oriented within the lower 90° of the signal arm.

ARM WELD DETAIL

4.55 mm thickness is permissible for Tip Section



Min. lap equals 1.5 times female I.D.

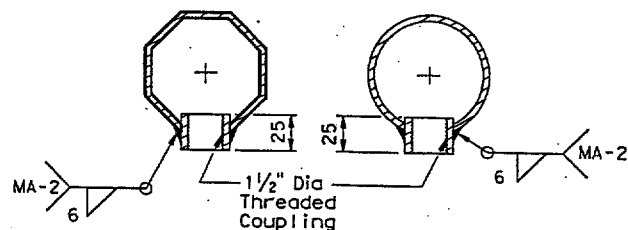
Note: A slip joint is permissible for arms 12,200 mm and greater in length. The slip joint shall be made in the shop, but may be match marked and shipped disassembled.

4 - 3/4" Dia holes and 1 - 5/8" Dia galv A307 bolt. Tack weld after making joint. Repair damaged galvanizing in accordance with the specifications.

SLIP JOINT DETAIL

NOTE:

Pole manufacturer shall drill 1/2" hole in bottom of mast arm at end plate. (for hot-dip galvanizing)



COUPLING DETAILS

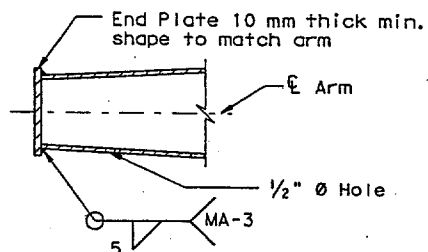


PLATE WELD DETAIL

GENERAL NOTES:

Design conforms to 1994 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals and Interim Specifications thereto. Design Wind Speed equals 130 kmph plus a 1.3 gust factor.

Poles are designed to support one 2,440mm luminaire arm, one 2,750mm internally lighted street name sign and one traffic signal arm with a length as tabulated. The specified luminaire load applied at the end of the luminaire arm equals 335 N vertical dead load plus the horizontal wind load on an effective projected area of 0.14 sq meter. The specified internally lighted street name sign load applied 1,400mm from the centerline of the pole equals 378 N vertical dead load plus horizontal wind load on an effective projected area of 1.07 sq meter. The specified signal load applied at the end of the traffic signal arm equals 800 N vertical dead load plus the horizontal wind load on an effective projected area of 3.0 sq meter (actual area times drag coefficient).

See Standard Sheet "MA-D(M)" for pole details, "MA-C(M)" for traffic signal arm connection details, "MA-C (ILSN) (M)" for internally lighted street name sign arm connection details, "LUM-A (M)" for luminaire arm and connection details, "SNS (M)" for internally lighted street name sign details, and "TS-FD (M)" for anchor bolt and foundation details. See "MA-C (M)" for material specifications.

Fabrication shall be in accordance with the Specifications and with the details, dimensions, and weld procedures shown herein. Weld references call for preapproved weld procedures which the Fabricator must obtain prior to fabrication. Miscellaneous welds which do not call for preapproved weld procedures are nevertheless subject to rejection for poor workmanship. Materials, fabrication tolerances, and shipping practices shall meet the requirements of this sheet and the Specifications.

Unless otherwise noted, all parts shall be galvanized in accordance with the Specifications.

Special design require submission of shop drawings in accordance with the item "Steel Structures".

△ The pole heights are for bidding purposes only. Prior to fabrication, the Contractor in cooperation with the Engineer shall make field measurements to determine the actual pole height necessary to ensure a verticle clearance of 5,330mm min., 5,790mm max.

Texas Department of Transportation
Traffic Operations Division

**TRAFFIC SIGNAL
SUPPORT STRUCTURES
SINGLE MAST ARM ASSEMBLY
(130 KMPH WIND ZONE)
SMA-130(2)-96(M) (DA)**

FILE# SMA-80.DGN	DN# MS	CK# JSY	DR# MAF	CK# JSY
© TxDOT AUGUST 1995	DIST FED REG	FEDERAL AID PROJECT#	SHEET	
5-96	REVISIONS	DAL 6	CM 97 (87)	17
	COUNTY	DALLAS	CONTROL SECT	JOB HIGH
			091845344 C	

Note: All dimensions are in millimeters (mm) except as noted.

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LEVELS DISPLAYED
ACC: d48hplq:/usr/d482517
LV-1,2 for English 1,3 for Metric