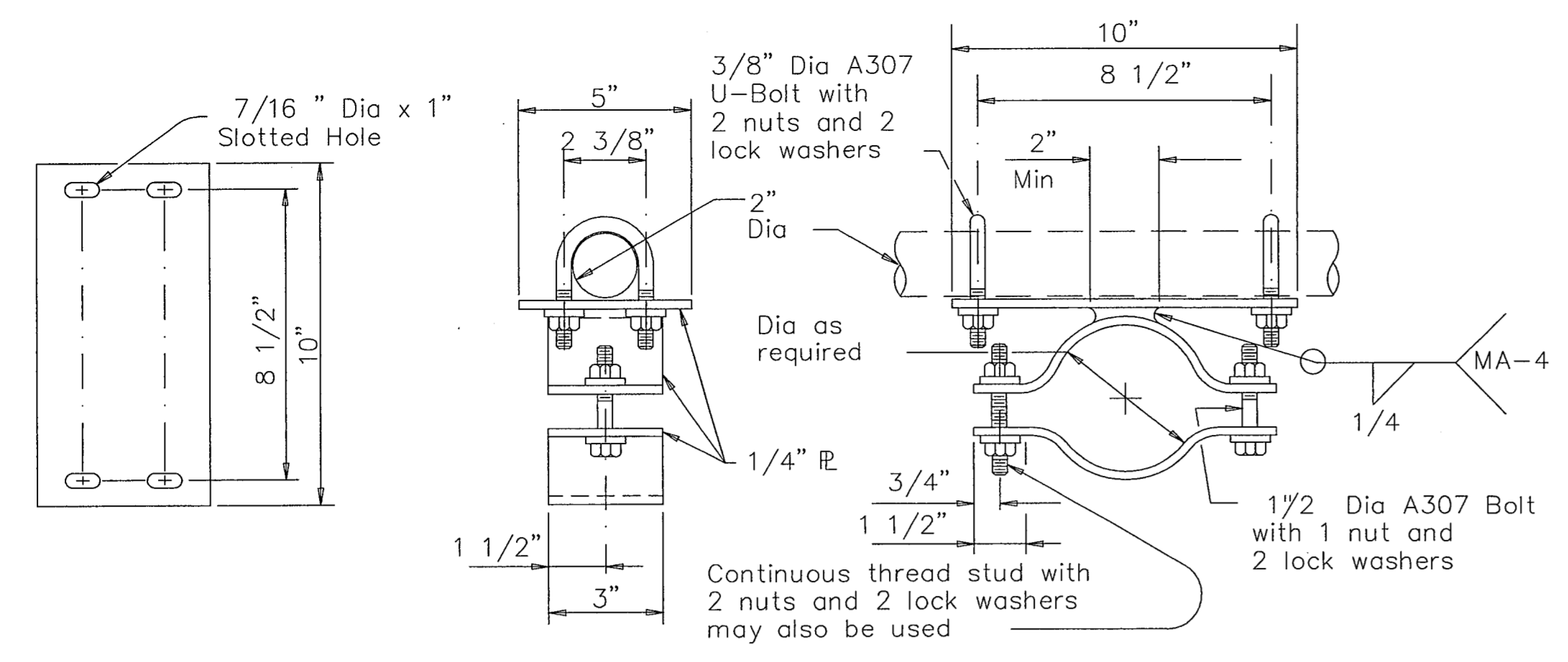
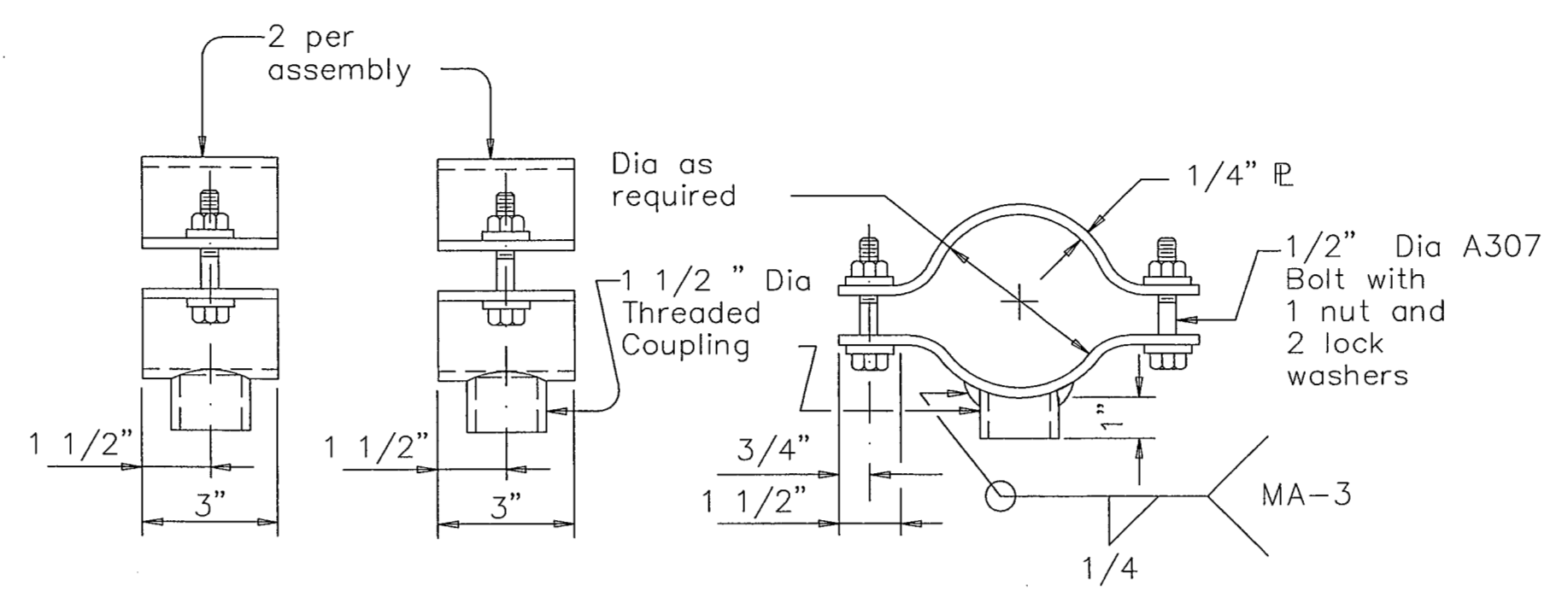


NO.	DATE	REVISION	APPROV.
1			
2			
3			



BRACKET ASSEMBLY DETAILS OPTION A

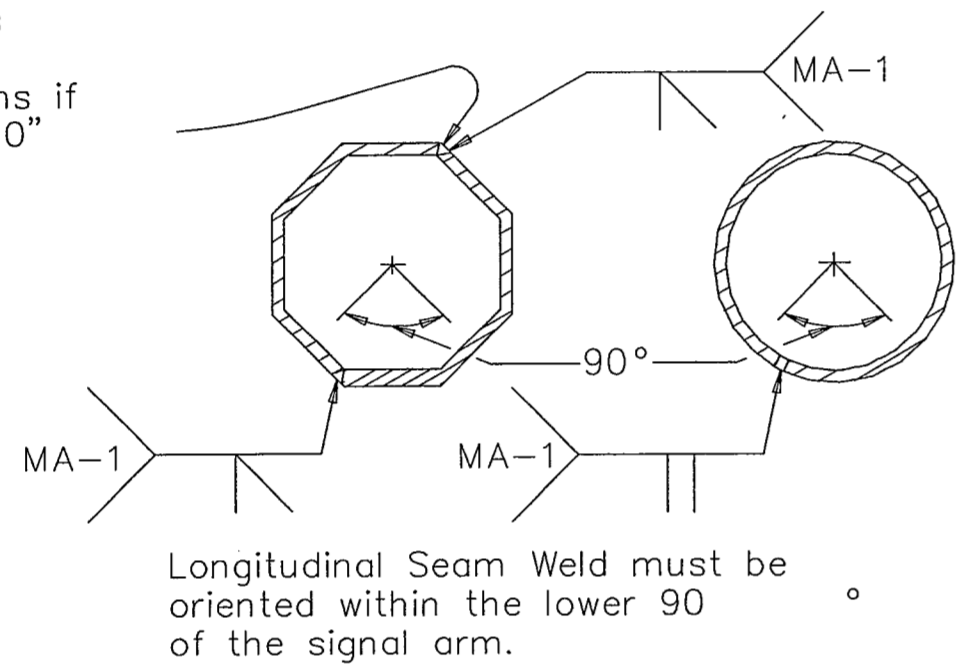


BRACKET ASSEMBLY DETAILS OPTION B

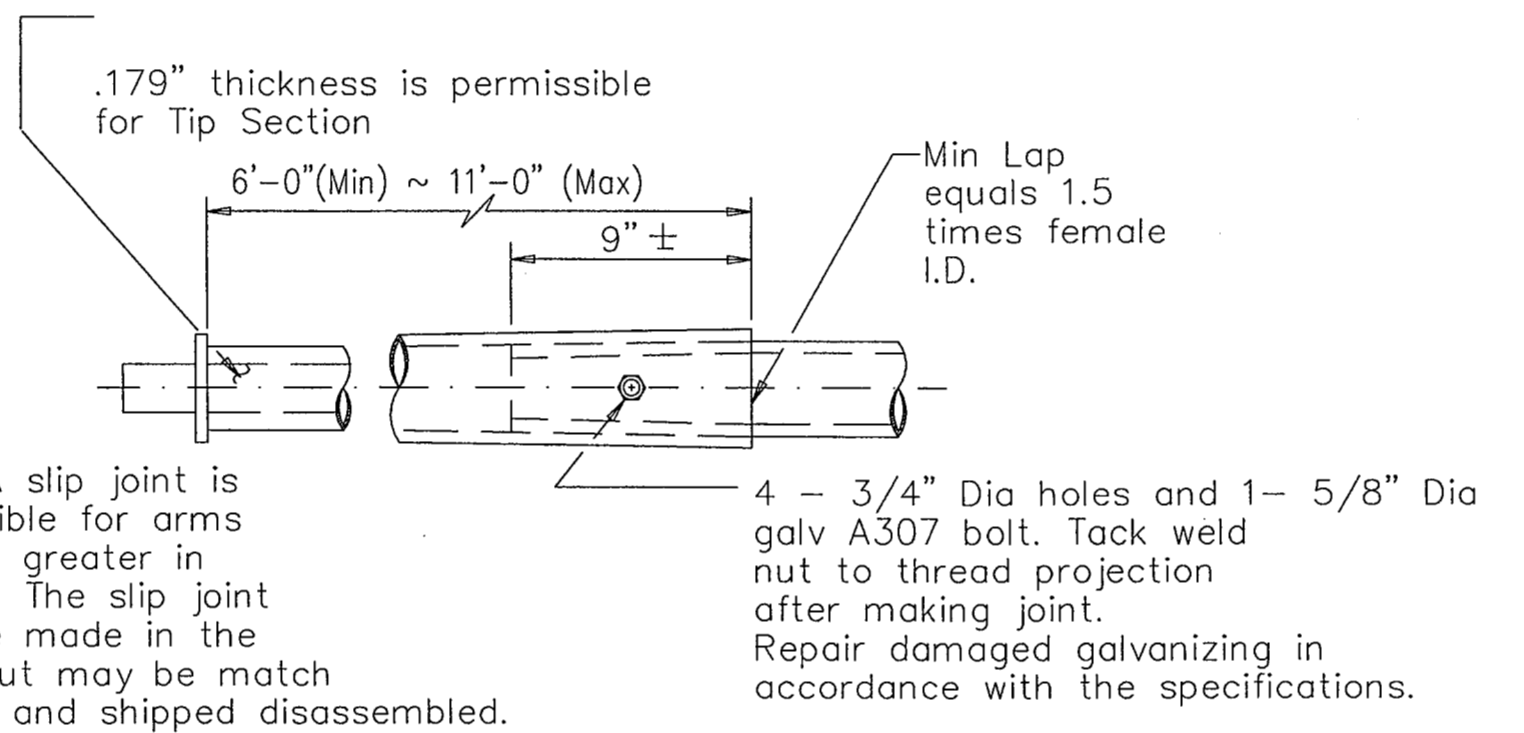
BRACKET ASSEMBLY OPTION C

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

Second longitudinal Seam Weld is permitted for polygonal arms if D₁ exceeds 10"



ARM WELD DETAIL



SLIP JOINT 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 80 mph plus a 1.3 gust factor.

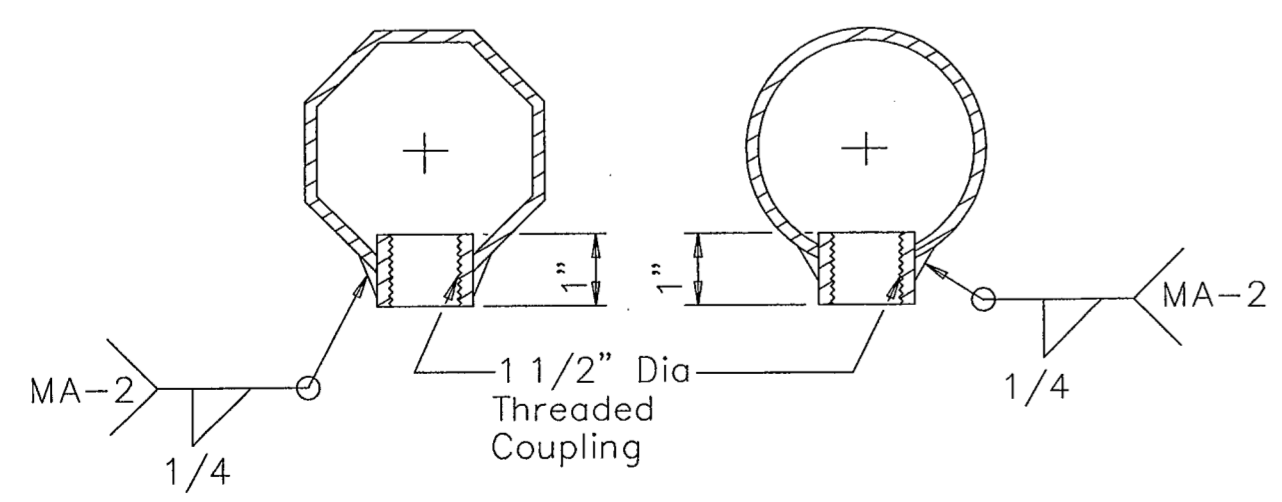
Poles are designed to support one 8'-0" luminaire arm, one 9'-0" internally lighted street name sign and one traffic signal arm with a length as tabulated. The specified luminaire load applied at the end of the luminaire arm equals 75 lbs vertical dead load plus the horizontal wind load on an effective projected area of 1.5 sq ft. The specified internally lighted street name sign load applied 4.5 ft from the centerline of the pole equals 85 lbs vertical dead load plus horizontal wind load on an effective projected area of 11.5 sq ft. The specified signal load applied at the end of the traffic signal arm equals 180 lbs vertical dead load plus the horizontal wind load on an effective projected area of 32.4 sq ft (actual area times drag coefficient).

See Standard Sheet "TS-12" for pole details, "TS-16" for traffic signal arm connection details, "TS-15" for internally lighted street name sign arm connection details, "TS-14" for luminaire arm and connection details, "TS-21" for internally lighted street name sign details, and "TS-11" for anchor bolt and foundation details. See "TS-16" for material specifications.

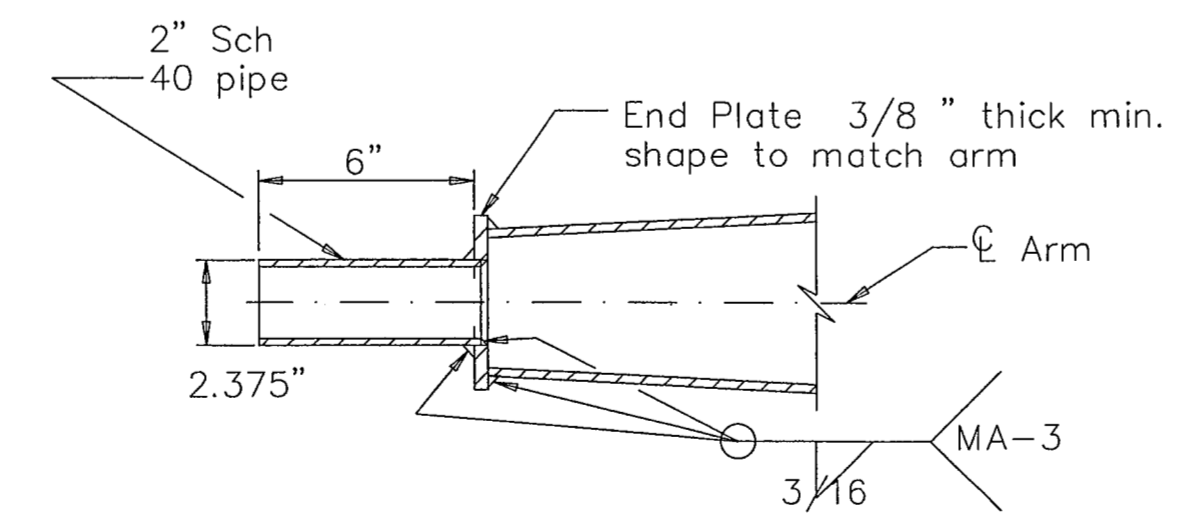
Fabrication shall be in accordance with the Specifications and with the details, dimensions, and weld procedures shown herein. Weld references call for preapproved weld procedures which the Fabricator must obtain prior to fabrication. Miscellaneous welds which do not call for preapproved weld procedures 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".



COUPLING DETAILS



TENON DETAIL



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY: WILLIAM J. HATCHELL ON 2/1/01 ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

BUILT AS PER SPECIFICATIONS AND PLANS BY DURABLE SPECIALTIES INC PROJECT COORDINATOR *[Signature]*

DATE: DECEMBER, 2001	SCALE: NOT TO SCALE	JOB NO.: 00-249	78C
DRAWN: GBW	DESIGN: WJH	REVIEWED:	DWG: 249DETAILS-SIGN

ARAPAHO ROAD PHASE II
TRAFFIC SIGNAL SUPPORT STRUCTURES
SIGNAL MAST ARM ASSEMBLY - 2 of 2

TOWN OF ADDISON

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SHT. TS-18 OF TS-21

THIS DETAIL SHEET WAS OBTAINED FROM TXDOT