

## CERTIFICATION

### WRTI / PHILADELPHIA

This is a certification that Metz Engineers performed a field survey on September 17, 2010 in Philadelphia County, PA. The survey was performed for Temple University Public Radio, WRTI/Philadelphia, PA.

Radio Tower is located at 310 Domino Lane, Philadelphia, PA 19128.

The survey consisted of a Differential Global Positioning (DGPS) to determine true north. Upon completion of our base line azimuth determination, we checked the alignment of the newly installed WRTI antenna system. The orientation as shown on Electronics Research Inc. Plan entitled; Surveyor Orientation (Additional Information) WRTI / Philadelphia, PA., Drawing No. IA25459A-2, dated August 12, 2010. As shown the antenna was confirmed to be aligned properly at 277° degrees from true north.

Several field and office checks were performed to verify instrument position and azimuth direction. All checks that were made verified the fieldwork was correct. Therefore, Metz Engineers certifies that the WRTI antenna is aligned in accordance with the manufactures drawing.



  
Kenneth M. Fretz, Sr., P.L.S.

Date 9/20/10

4

3

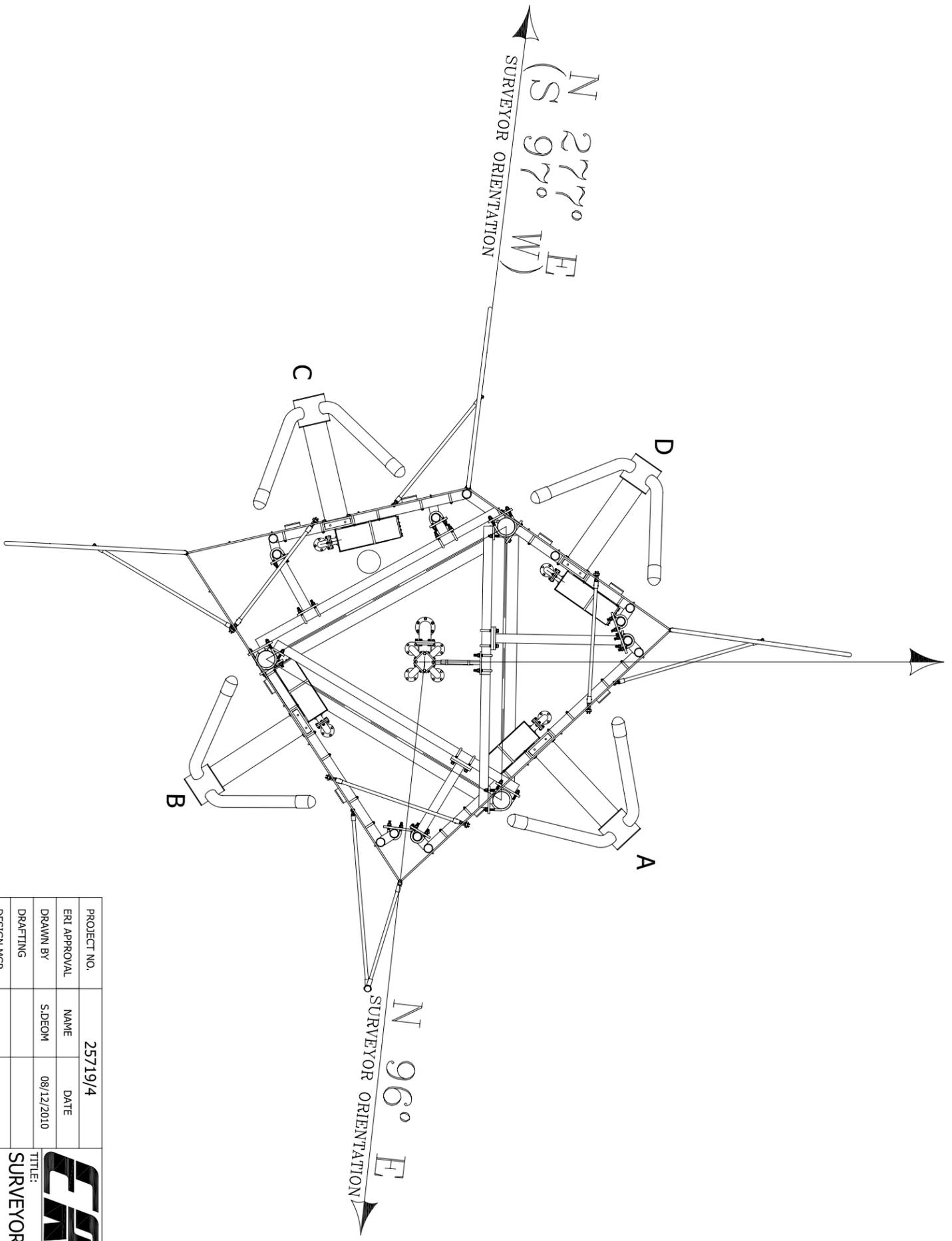
2

1

0°  
TRUE  
NORTH

N 277° E  
(S 97° W)  
SURVEYOR ORIENTATION

N 96° E  
SURVEYOR ORIENTATION



This document/drawing contains information considered confidential by Electronics Research, Inc. (ERI). This information is disclosed on a confidential basis and only authorized for use in the installation, operation, and maintenance of ERI tower and antenna equipment, as appropriate. Reproduction, transmission, disclosure of ERI's confidential information, without the express written consent of ERI, is strictly prohibited. UNAUTHORIZED DUPLICATION, REPRODUCTION, OR DISCLOSURE OF THIS INFORMATION IS A VIOLATION OF FEDERAL LAW. COPYRIGHT © 2010 ERI, ELECTRONICS RESEARCH INC.

THIRD ANGLE PROJECTION

MATERIAL

FINISH

TOLERANCES  
OVERALL-NOT CUMULATIVE  
UNLESS OTHERWISE SPECIFIED,  
ALL DIMENSIONS ARE IN INCHES  
AND APPLICABLE AT 20°C (68°F)  
INTERPRET DIMENSIONS AND TOLERANCES  
PER ASME Y14.5M-1994

1 PLACE DECIMAL ± .1  
2 PLACE DECIMAL ± .03  
3 PLACE DECIMAL ± .010  
ANGULAR ± .5°  
FRACTIONAL ± 1/16"

PROJECT NO.	25719/4	
ERI APPROVAL	NAME	DATE
DRAWN BY	S.DEOM	08/12/2010
DRAFTING		
DESIGN MGR.		
ENG.		
MANUF.		
EXT. APPROVAL		
COMPANY		
SUPERSEDES PART NO.		

**ERI** ELECTRONICS RESEARCH INC.  
ESTABLISHED 1943

7777 GARDNER RD.  
CHANDLER, IN 47610-9219  
PHONE: (812) 925-6000  
FAX: (812) 925-4030

TITLE:  
SURVEYOR ORIENTATION (ADDITIONAL INFORMATION)  
WRTI / PHILADELPHIA, PA

1184-2CP-DA

SIZE	GAGE CODE	DWG NO.	REV.
B	OZNS1	IA25459A-2	

SCALE: 1:32

WEIGHT:

SHEET:

A

B

A

B