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PLANNING, ZONING AND BUILDING SAFETY

Public Health,  
Housing Inspections &  
Inspection Services

MEMORANDUM

**To:** Mayor and City Council Members  
**Cc:** Gregg Mandsager, City Administrator  
**From:** Steven Boka, Director of Community Development  
**Date:** March 10, 2011  
**Re:** Request to accept Donation – Airport Compass Rose

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**INTRODUCTION:** The Muscatine Airport Advisory Commission has received an offer to donate the placement of a compass rose at the Muscatine Municipal Airport.

**BACKGROUND:** The Iowa Chapter of 99's, a long standing, respected women's aviation organization, has contacted the city with an offer to place a compass rose at the airport in honor of June Rigler, a Muscatine resident who was a pilot and stewardess for United Airlines for many years. June also assisted in the selection of art that was placed in the new terminal building following construction.

For non-aviator's, a compass rose is a large painted compass located somewhere on airport concrete where a plane can line up with the rose and fine tune the magnetic compass settings in the airplane.

The city has to agree to allow the installation, determine an appropriate location where airplanes can taxi to the rose and make continual turns to point the aircraft in different directions with thirty degrees of change. The location would need to be located in such a way that prop wash is not directed toward any building in close proximity.

**RECOMMENDATION/RATIONALE:** The Airport Advisory Commission has reviewed the request and is recommending that City Council accept the donation in honor of June Rigler, and authorize staff to determine the appropriate location for the installation, as well as assist in determining magnetic north prior to installation.

**BACKUP INFORMATION:**

1. Email correspondence regarding the donation.
2. Photos of the Compass Rose

**From:** Jerry M. Page [pagej@machlink.com]  
**Sent:** Wednesday, March 09, 2011 4:34 PM  
**To:** Boka, Steve  
**Cc:** 'Mike Woerly'; janet.lewis@carveraero.com; A/P - Lewis (H), Janet  
**Subject:** FW: Muscatine Compass Rose

**Attachments:** IMG\_0120.JPG; Compass Rose.pdf; Diamond Vogel UC-1509PI.pdf

**Steve:** I believe the attached photos and notes below furnish the information we requested.

If and when everything is okay, please advise, and if you wish, I will notify Mr Devick and other involved parties it is okay to proceed. Will someone on City staff be able to help locate a point for magnetic north relative to the center point when it is located and marked?

With these drawings and noted dimensions, is it okay if Mike W. locates the center point?

Jerry

Cell: 563/607-3526

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**From:** Bruce Devick [mailto:[bruinmfg.com](mailto:bruinmfg.com)]  
**Sent:** Wednesday, March 09, 2011 10:39 AM  
**To:** [pagej@machlink.com](mailto:pagej@machlink.com); [janet.lewis@carveraero.com](mailto:janet.lewis@carveraero.com)  
**Cc:** [cmberg@mailmis.com](mailto:cmberg@mailmis.com); [m-gardinier@uiowa.edu](mailto:m-gardinier@uiowa.edu)  
**Subject:** Muscatine Compass Rose

I am attaching a PDF file that pictures the layout of the compass rose to be painted in April. The cardinal points (N, E, S, W) are 40 ft tip to tip, and the center circle is 10 ft diameter. Location of the center point of the compass rose and a second point also marked at least 30 feet magnetic North will be needed from KMUT.

Also included is a picture of the miniature compass rose, during construction, that was done for the Iowa Children's Museum "Take Flight" exhibit in Iowa City.

I am including an additional PDF of the paint specifications. Please note on the spec sheet that this paint is formulated for airport runway use as well as street markings, and is self priming. I will purchase the paint, for the club, but closer to the date we do the work to avoid any shelf life issues and getting the correct type. Reimbursement for the paint I will leave up to the club and KMUT.

Bruce Devick  
Marshalltown, IA  
641-691-6263 (cell)  
[bruinmfg.com](mailto:bruinmfg.com)

<<IMG\_0120.JPG>> <<Compass Rose.pdf>> <<Diamond Vogel UC-1509PI.pdf>>



UC-Series  
**Waterborne Traffic  
Marking Paint**

**Product Data Sheet**

**PRODUCT DESCRIPTION**

Diamond Vogel's UC-Series Waterborne Traffic Marking Paint is a lead free, fast drying, high hiding, water reducible striping paint. UC-1509, UC-3584, UC-5503, UC-7503 & UC-9507 Waterborne Traffic Marking Paint meets or exceeds federal specification TT-P-1952-D or E, I & II.

**TYPICAL USES**

The UC-Series Marking Paint is recommended for marking and striping streets, highways or other traffic surfaces including driveways, parking lots, sidewalks, curbs or airport runways. It may be applied to either concrete or asphalt surfaces by a variety of methods.

**COLORS AVAILABLE**

UC-1509 White  
UC-3584 Yellow  
UC-5503 Red  
UC-7503 Blue  
UC-9507 Black

**PHYSICAL PROPERTIES(UC-1509)**

Resin Type	Acrylic
Clean-up Solvent	Water
Finish	Flat
Solids by Weight	78 %
Solids by Volume	61 %
Recommended Dry Film Thickness per Coat	9.8 mils
Wet Film to Achieve DFT	16 mils
Theoretical Coverage @ 1 mil	978 ft <sup>2</sup> /gallon
Practical Coverage at Recommended DFT <sup>1</sup> 4" Line @ 16 mils WFT	100 ft <sup>2</sup> /gallon 300 ft/gallon
<u>Dry Times</u> <sup>2</sup> @ 70° F (21° C) and 50% R.H.	Tack Free less than 5 minutes
VOC's	68 - 99 grams/liter

<sup>1</sup> Spread rates are estimates based on products volume solids and make no allowance for material loss during application. Actual spread rates may vary dependent on applicator experience, surface porosity and texture.

<sup>2</sup> Dry times may vary depending upon temperature, humidity and degree of air movement.

**SPECIFICATIONS**

**Concrete**  
Self Priming

**Asphalt**  
Self Priming

**Cinders**  
Self Priming

For more detailed recommendations, please contact your local Diamond Vogel Sales Representative.

**SURFACE PREPARATION**

The surface to be coated must be free of any contaminant that will prevent the paint from adhering to the surface. Oil, grease, loose paint chips, gravel, salt films and curing membranes may all interfere with the adhesion of the coating. The surface should be swept clean of all loose contaminants. Visible stains of oils or dirt should be washed from the surface prior to coating. Slick or glossy surfaces, such as hard steel troweled concrete should be abraded to provide surface profile for the coating to adhere to.

**APPLICATION**

- Stir material prior to application.
- Equipment must be clean prior to start. Flush airless lines with water.
- Apply with conventional or airless spray equipment.
- Small areas may be brushed or rolled.
- Material may be thinned with N-7025 to a maximum of 1 pint per gallon as required for application, although this may slow dry time.
- Apply 1 coat 16 mils wet film thickness.
- Allow to dry 5 minutes before allowing traffic to drive over this coating.
- This coating has been successfully applied through a heated system up to temperatures of 140° F. Heating the coating will decrease the dry time.

**ENVIRONMENTAL VARIABLES**

Apply when air and surface temperatures are above 50° F. The coating may be applied to a slightly damp surface. Puddle water should not be present when applying the coating. Lower surface and air temperatures will slow the speed of dry. Surface temperatures below 70° F and/or relative humidity greater than 80% may require longer curing times prior to bearing traffic.

**CLEAN-UP**

Clean up spills immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment.

**CAUTIONS**

**Do Not Freeze**

Do not apply below 50° F.

Do not take internally

Use with adequate ventilation

**KEEP OUT OF REACH OF CHILDREN**

**\*WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the national Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

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**Limited Warranty**

The technical data and suggestions for use contained in this document are true and correct to the best of our knowledge at the date of issuance. The statements of this document do not constitute a warranty, expressed or implied, as to the performance of these products. Since Diamond Vogel Paints does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel Paint's liability will under no circumstances exceed replacement of the product.



