Ohio Department of Transportation

Inter-Office Communication

Central Office
Office of Production

Date: **October 15, 2010**

To: **ODOT District Production Administrators, Planning Administrators, and Survey Operations Managers**

From: **William Ujvari, P.E., Administrator, Central Office – Office of Production and John Ray, P.E., Administrator, Central Office – Office of Aerial Engineering**

Subject: **Implementation of Mapping and Survey Specification and Supplemental Specification 823**

The Office of Aerial Engineering published a revised Mapping and Survey Specification on October 15, 2010. In addition, the Office of Construction Administration issued Supplemental Specification 823 – Construction Layout Stakes and Survey Monuments on October 15, 2010. Supplemental Specification 823 incorporates guidelines regarding survey, project control and electronic instrumentation that are established in the Mapping and Survey Specification.

Projects being scoped on or after October 15, 2010 are required to incorporate the Mapping and Survey Specification and Supplemental Specification 823 into the project. During project scope development, survey parameters shall be coordinated with the District Survey Operations Manager. Scope of service attachments related to mapping and survey are available through the Office of Aerial Engineering.

Due to the new survey and project control requirements established in the Mapping and Survey Specification dated October 15, 2010, projects scoped prior to October 15, 2010 are not required to implement the newly published Mapping and Survey Specification and Supplemental Specification 823. However, depending on the project development status and other project related issues, projects scoped prior to October 15, 2010 may consider using the new Mapping and Survey Specification and Supplemental Specification 823 in its entirety or by applying portions of the Mapping and Survey Specification. For example, projects with significant earthwork or projects involving very complex work may consider following all aspects of both specifications or the project may consider using the vertical TIN accuracy testing procedures described in the Mapping and Survey Specification.

To implement the new requirements on projects, the following information shall be incorporated into the plans:

- Include SS 823 on the list of supplemental specifications on the title sheet with the appropriate issue date.
- Include Standard Construction Drawing RM-1.1 with the appropriate issue date.
- Include Item 823 pay items related to monuments and construction layout stakes on both the General Summary and the appropriate sub-summary. Pay items related to Supplemental Specification 823 have been created to replace similar items currently included in Construction and Materials Specifications 604 and 623.

- For projects requiring the Contractor to provide electronic equipment for construction layout stakes, include Item 823 - Providing Electronic Instrumentation. This pay item replaces Proposal Note 623 - Providing Electronic Equipment for Construction Layout.
- Project Control Monuments that may be disturbed by the Contractor's construction operations shall be quantified for resetting by the Contractor and included in the General Summary.
- Include Location and Design Manual Volume 3, Appendix B, Sample Plan Note G105B – Survey Parameters.

RM-1.1 has also been updated in regard to the resetting of right-of-way monuments. The implementation of the monument reset features will be addressed in a forthcoming IOC.

Supplemental Specification 823 may be obtained at the following website:

http://www.dot.state.oh.us/Divisions/ConstructionMgt/OnlineDocs/Pages/ProposalNotesSupplementalSpecificationsandSupplements.aspx

The Mapping and Survey Specification may be obtained at the following website:

http://www.dot.state.oh.us/Divisions/ProdMgt/Aerial/Pages/StandardsSpecifications.aspx

Location and Design Manual, Volume 3, Appendix B, Sample Plan Note G105B may be obtained at the following website:

http://www.dot.state.oh.us/Divisions/ProdMgt/Production/volume3/Pages/ld3.aspx

Standard Construction Drawing RM-1.1 may be obtained at the following website:

http://www.dot.state.oh.us/Divisions/ProdMgt/Roadway/roadwaystandards/Pages/StandardConstructionDrawing.aspx

If you have any questions regarding Supplemental Specification 823, please contact Peter Narsavage.

If you have any questions regarding the Mapping and Survey Specification, please contact John Ray or Jeff Syar.

If you have any questions regarding the implementation of the Mapping and Survey Specification and Supplemental Specification 823, please contact Mike Wawszkiewicz or Bill Ujvari.

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c: William Ujvari, John Ray, Jeff Syar, Mike Wawszkiewicz, Brett Shearer, Peter Narsavage