INDIANA DEPARTMENT OF TRANSPORTATION
Driving Indiana's Economic Growth

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Mitchell E. Daniels, Jr., Governor
Michael B. Cline, Commissioner

ADDENDUM 1 TO AGENDA

December 16, 2010 Standards Committee Meeting

(Added Items shown as Highlighted in Yellow)

ADDENDUM 1

MEMORANDUM

December 07, 2010

TO: Standards Committee

FROM: Scott Trammell, Secretary

RE: Addendum 1 to Agenda for the December 16, 2010 Standards Committee Meeting

A Standards Committee meeting is scheduled for 1:00 p.m. on December 16, 2010 in the 9th Floor Conference Center that is located on the north side of the building near the east elevator bank.

The following agenda items are listed for consideration: Page No.

A. GENERAL BUSINESS ITEMS

OLD BUSINESS

(No items on this agenda)

NEW BUSINESS

1. Approval of the November 18, 2010 Minutes.

2. Demonstration of the application "Tech Writer Assistant" used by the Contract Administration

B. CONCEPTUAL PROPOSAL ITEMS

OLD BUSINESS

(No items on this agenda)

NEW BUSINESS

1. Changes to the AASHTO LRFD Bridge Design Specifications 2010 (Fifth Edition) (see Agenda page 05)

2. Revisions to Part 3 "Location Surveys" of the IDM John Wright

C. STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND STANDARD DRAWINGS PROPOSED ITEMS

OLD BUSINESS

Item No. 05 09/16/10 (2010 SS) Mr. Wright (see Agenda page 09)

STANDARD DRAWINGS:

601-CWGS-02	CURVED W-BEAM GUARDRAIL SYSTEM
601-CWGS-04	CURVED W-BEAM GUARDRAIL SYSTEM
601-CWGS-06	CURVED W-BEAM GUARDRAIL SYSTEM
601-MTGR-01	THRIE BEAM GUARDRAIL DETAILS
601-TBGC-01	THRIE-BEAM GUARDRAIL COMPONENTS
601-TMTT-01	THRIE BEAM GUARDRAIL TO THRIE BEAM GUARDRAIL TRANSITION, TTT
601-TTGB-01	GUARDRAIL TRANSITION TYPE TGB
601-TTGB-03	GUARDRAIL TRANSITION TYPE TGB
601-TTGB-04	GUARDRAIL TRANSITION TYPE TGB
601-TTGB-05	GUARDRAIL TRANSITION TYPE TGB
601-TTGP-01	GUARDRAIL TRANSITION TYPE GP
601-TTGP-02	GUARDRAIL TRANSITION TYPE GP
601-TTGT-01	GUARDRAIL TRANSITION, TGT
601-TTGT-02	GUARDRAIL TRANSITION, TGT
601-TTMS-01	DOUBLE FACED THRIE BEAM GUARDRAIL TRANSITION TO GRET TYPE MS
601-TTVH-01	GUARDRAIL TRANSITION TYPE VH
601-TTVH-02	GUARDRAIL TRANSITION TYPE VH
601-TWGB-03	GUARDRAIL TRANSITION TYPE WGB
601-TWGT-01	W-BEAM GUARDRAIL TO THRIE BEAM GUARDRAIL TRANSITION, WGT
601-WBGA-01	W-BEAM GUARDRAIL ASSEMBLIES
601-WBGA-02	W-BEAM GUARDRAIL ASSEMBLIES
601-WBGA-06	WR-BEAM GUARDRAIL
706-CBRT-02	BRIDGE RAILING TRANSITION WBC
706-CBRT-04	BRIDGE RAILING TRANSITION TBC OR TBT ATTACHMENT OF GUARDRAIL
706-TBRC-01	RETROFIT THRIE BEAM BRIDGE RAILING TR
706-TBRC-02	RETROFIT THRIE BEAM BRIDGE RAILING TR COMPONENTS
706-TBRF-01	RETROFIT THRIE BEAM BRIDGE RAILING TR COMPONENTS
706-TTBC-01	CONCRETE BRIDGE RAILING TRANSITION TBC
706-TTBC-03	CONCRETE BRIDGE RAILING TRANSITION TYPE TBC
706-TTBP-01	CONCRETE BRIDGE RAILING TRANSITION, TPF-1
706-TTBO-03	CONCRETE BRIDGE RAILING TRANSITION, TPF-2

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706-TTBP-05	CONCRETE BRIDGE RAILING TRANSITION, TPS-1
706-TTBP-07	CONCRETE BRIDGE RAILING TRANSITION, TPS-2
706-TTBT-01	CONCRETE BRIDGE RAILING TRANSITION TYPE TBT
706-TTBT-03	CONCRETE BRIDGE RAILING TRANSITION TYPE TBT
706-TTTX-01	CONCRETE BRIDGE RAILING TRANSITION, TTX
706-TWBC-01	CONCRETE BRIDGE RAILING TRANSITION TYPE WBC

RECURRING PLAN DETAILS:

706-B-140d (3 SHEETS)	BRIDGE RAILING TYPE TS-1 & GUARDRAIL TRANSITION TYPE TGS-1

Item No. 01 11/18/10 (2010 SS) Mr. Walker (Addendum 1 page 06)

Recurring Special Provision:

203-R-XXX	*LIGHT WEIGHT DEFLECTOMETER*

NEW BUSINESS

Item No. 01 12/16/10 (2010 SS) Mr. Pankow (see Agenda page 52)

101.74	Working Drawings
105.02	Plans and Working Drawings
206.09	Cofferdams and Temporary Construction Dikes
601.07	Guardrail End Treatments
601.08	Impact Attenuators
702.14	Falsework and Centering
711.05	~~Shop~~*Working* Drawings
711.23	Reamed or Drilled Holes
711.60	Field Assembly of Steel
711.73(b)	Unit Weight Basis
724.02	Materials
724.03	General Requirements
801.10.1	Construction Zone Energy Absorbing Terminal, Cz
802.04	~~Shop~~*Working* Drawings
803.01	Description
805.04	Pole Installation
~~807.02~~	~~Maintenance of Highway Illumination~~
807.0~~3~~*2*	Materials
807.03	*Working Drawings*
807.17	Pay Item and Installation Summary Sheets
920.01(g)	~~Shop Drawings~~*Blank*

Recurring Special Provisions:

627-R-546	CABLE BARRIER SYSTEM
707-B-085	ALTERNATE PRESTRESSED PRECAST CONCRETE I-BEAM TO STANDARD AASHTO TYPE IV PRESTRESSED PRECAST CONCRETE I-BEAM
724-B-145	EXPANSION JOINT SEALING SYSTEM
732-R-310	MODULAR CONCRETE BLOCK RETAINING WALL
922-T-168	TRAFFIC SIGNAL MATERIALS AND EQUIPMENT

ADDENDUM 1

Item No. 02 12/16/10 (2010 SS) Mr. Pankow (see Agenda page 71)

Recurring Special Provision:

207-R-577 SUBGRADE AND CHEMICALLY MODIFIED SOILS

Item No. 03 12/16/10 (2010 SS) Mr. Pankow (see Agenda page 80)

628 FIELD OFFICE, FIELD LABORATORY, COMPUTER SYSTEMS, ~~AND~~ OFFICE MACHINES *AND COMMUNICATIONS*

628.04 Cellular Telephones/Radios

628.0~~4~~*5* Method of Measurement

628.0~~5~~*6* Basis of Payment

cc: Committee Members (11)
FHWA (2)
ICA (1)

ADDENDUM 1

INDIANA DEPARTMENT OF TRANSPORTATION
Driving Indiana's Economic Growth

Land & Aerial Survey Office
120 South Shortridge Rd.
Indianapolis, IN 46219-6705

PHONE: (317) 610-7251
FAX: (317) 356-9351

Mitchell E. Daniels, Jr., Governor
Michael B. Cline, Commissioner

Memorandum

To: John Wright, Highway Design & Tech Support Director

From: Eric Banschbach, Land & Aerial Survey Office Manager

cc: Anthony Uremovich, Design Resource Engineer

Date: 11/23/2010

Re: Proposed Revisions to Part 3 of the Indiana Design Manual

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Due to INDOT's migration to Bentleys InRoads software and the integration of InRoads Survey for all new in-house survey project work, in addition to consultants assimilating to the new format, there is a definitive and urgent need to establish standards for survey file requirements and transmittals.

The current version of the Indiana Design Manual does not reflect any requirements or even an option for InRoads formatting. Considering INDOT has made the commitment to switch from MX to InRoads, it is imperative that the IDM provide and accurately reflect established standards for InRoads Survey file submittals.

The Land & Aerial Survey Office, the CAD Support team, and the district Survey Operations Managers have discussed this issue at length and have developed the necessary standards to ensure consistency and completeness of survey file submittals. Our intent is to revise Part 3 of the current IDM to reflect the following:

- Establishing file naming conventions for survey file submittals based on InRoads formatting (Ch. 26)
- Establish required files for all survey submittals based on InRoads formatting (Ch. 26)
- Establish required content and definition of each required file based on InRoads format (Ch. 26)
- Eliminate current option of collection and submission of "Conventional Engineering Survey Data" (CH. 22 & 26)
  - "Conventional surveying", as currently referenced in the IDM, is an antiquated method that is no longer a standard in data collection.
  - Allowing this option creates a significant amount of additional work for INDOT to translate into a functional format
- Eliminate option to provide survey data in other formats, e.g. MOSS (or MX), DXF. (Ch. 23 & 26)
  - Allowing submittal in formats other than InRoads will still require translation of files into InRoads format by INDOT
  - The option to submit other formats should **not** be left to the consultant, but only based on approval from INDOT
  - In rare situations where submittals in previous formats may be desired (i.e. resurvey of small structure that used older formats), that should only be an option for INDOT to allow.
- Provide statement that submittals in formats other than the current may only be acceptable at the discretion of INDOT, and would require written approval prior to start of survey work. (Ch. 26)

This revision should be implemented as soon as possible in order to provide necessary guidance to consultants and establish uniformity and compatibility. A suggested implementation date would be 1 January, 2011. If additional information is required, please contact Eric Banschbach, LASO and/or Scott Robinson, CAD Support.

ADDENDUM 1
Mr. Walker
Date: 12/16/10

SPECIFICATIONS REVISIONS (OLD BUSINESS ITEM)

REVISION TO THE RECURRING SPECIAL PROVISION

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: A Recurring Special Provision for Light Weight Deflectometer (LWD) testing is needed to determine the stiffness of granular materials used for embankments and compacted aggregates. The Dynamic Cone Penetrometer is not capable of measuring the stiffness of these materials because of the restriction of penetration of the cone by the larger aggregate sizes in these materials

PROPOSED SOLUTION: Adopt a Recurring Special Provision for LWD testing that would be used for granular materials.

APPLICABLE STANDARD SPECIFICATIONS: 203.23 and 203.24

APPLICABLE STANDARD DRAWINGS: None

APPLICABLE DESIGN MANUAL SECTION: None

APPLICABLE SECTION OF GIFE: None

APPLICABLE RECURRING SPECIAL PROVISIONS: None

Submitted By: Ron Walker

Title: Manager, Office of Materials Management

Organization: INDOT

Phone Number: 317-610-7251x204

Date: December 3, 2010

APPLICABLE SUB-COMMITTEE ENDORSEMENT?INDOT/ICA Soils Technical Committee

ADDENDUM 1

REVISION TO THE RECURRING SPECIAL PROVISION (OLD BUSINESS ITEM)

PROPOSED RECURRING SPECIAL PROVISION *203-R-XXX LIGHT WEIGHT DEFLECTOMETER TESTING*

203-R-XXX LIGHT WEIGHT DEFLECTOMETER TESTING

(Adopted xx-xx-xx)

The Standard Specifications are revised as follows:

SECTION 203, BEGIN LINE 831, DELETE AS FOLLOWS:

203.23 Embankment Other Than Rock and Shale, With Density Control

~~Unless otherwise specified, all embankments shall be compacted to at least 95% of their maximum dry density. The moisture content shall be controlled within -2 and +1 percentage points of optimum moisture content. Maximum density and optimum moisture content shall be determined in accordance with AASHTO T 99 using method A for soil and method C for granular materials.~~

SECTION 203, BEGIN LINE 909, INSERT AS FOLLOWS:

203.24.1 Compaction Acceptance with Light Weight Deflectometer

The compaction will be determined by testing with a Light Weight Deflectometer, LWD, in accordance with ITM 508. The moisture content shall be controlled within -3 and -1 percentage points of the optimum moisture content determined in accordance with AASHTO T 99 Method C.

The Department will establish the criteria for LWD acceptance of compaction by performing optimum moisture, maximum density, and gradation testing in accordance with AASHTO T 99 Method C, T11, and T 27 respectively, on representative samples of the material. The minimum deflection required will be determined based on a test section for each material type.

Test sections shall be constructed in the presence of a representative of the Office of Geotechnical Engineering with the available equipment of the Contractor to determine the roller type, pattern, and number of passes for the minimum required deflection. The Engineer will select an area approximately 100 ft (33 m) by 20 ft (6 m) for the test section. The subgrade shall be proofrolled in accordance with 203.26 prior to construction of the lift.

In the test section, moisture tests will be performed in accordance with ITM 506 at 2 random locations, and LWD testing will be performed at 10 random locations concurrently with density testing performed in accordance with AASHTO T 310. The locations will be determined in accordance with ITM 802. The density shall meet the requirements of 301.06. The moisture content shall be controlled within -3 and -1 percentage points of the optimum moisture content. The average deflection will be determined from the 10 LWD tests.

ADDENDUM 1

COMMENTS AND ACTION (OLD BUSINESS ITEM)

PROPOSED RECURRING SPECIAL PROVISION *203-R-XXX LIGHT WEIGHT DEFLECTOMETER TESTING*

Motion: Second: Ayes: Nays:	Action: ____ Passed as Submitted ____ Passed as Revised ____ Withdrawn
Standard Specifications Sections affected: 203.23 pg 156 Recurring Special Provision with same affected sections: 203-R-562 DYNAMIC CONE PENETROMETER TESTING FOR EMBANKMENT Standard Sheets affected: NONE Design Manual Sections affected: NONE GIFE Sections cross-references: NONE	____ 20__ Standard Specifications Book ____ Create RSP (No.____) Effective ____Letting RSP Sunset Date: ____ ____ Revise RSP (No.____) Effective ____Letting RSP Sunset Date: ____ Standard Drawing Effective ____ ____ Create RPD (No. ____) Effective ____Letting ____ Technical Advisory GIFE Update Req'd.? Y ___ N ___ By ____ Addition or ____ Revision Frequency Manual Update Req'd? Y__N__ By ____ Addition or ____ Revision Received FHWA Approval? ____

ADDENDUM 1