





DM15-07 Proprietary Materials

 XJS is a proprietary product and should not be used on plans.

- RSP 724-B145 Structural Expansion Joint Sealing System contains the necessary material requirements.
- Proprietary Material Basics
 - Federal dollars cannot be used for a proprietary material without prior approval.
 - Specific product names can be used where at least 3 products are listed.
 - Local funds can be utilized for proprietary products. The cost estimate must show these items as "Z" items.

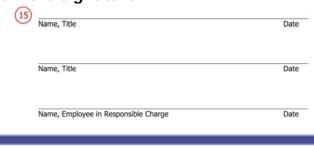




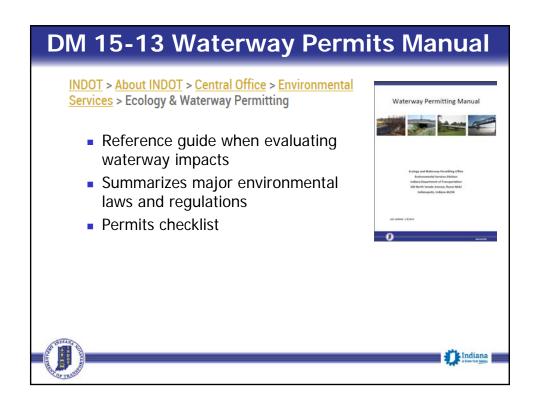
XJS EXPANSION JOINT SYSTEM

DM 15-08 Title Sheet Signatures

- LPA Plans must include the following signatures
 - The LPA's board or administrative body. The minimum number of signatures is that which represents a quorum. The LPA's fiduciary representative may sign in lieu of the board members or administrative body.
 - The LPA's Employee in Responsible Charge (ERC).
- The person's name and title should be printed below the signature.







DM 15-11 Anchored TCB

- Anchoring details removed from the Standard Drawings
- Designer determines the location where anchoring is required
 - Typically anchored adjacent a significant drop off, e.g. phased bridge construction.
 - Typically <u>not anchored</u> to separate two-way traffic.
 - INDOT has successfully crash tested a new detail to meet MASH 2009 TL-3 requirements.
 - A Federal-aid eligibility letter B-258









DM 15-12 Design Resources

- Example Bridge Plans
 - Provides guidance on the purpose of, and information to be shown on each sheet.
 - Updated for CAD Standards
- Standard Beam Detail Sheets
 - ASCE-INDOT Structures Committee
 - Standardized format for providing concrete beam details to contractors and the concrete beam industry.
- Bridge Design Practice Pointers
 - ASCE-INDOT Structures Committee
 - highlight known software idiosyncrasies and overlooked detailing elements.

<u>INDOT</u> > <u>Doing Business with INDOT</u> > <u>Consultants/Pre-Construction</u> > <u>Designers</u> > <u>Bridges</u> & Structures







 Include Maximum Factored Bearing Resistance from the geotechnical report on contract plans.



Maximum Factored Bearing Resistance	
Location	PSF.
321+50 "PR-NWL" To 325+50 "PR-NWL"	5,850
325+50 "PR-NWL" To Bent No. 1	7,500
Bent No. 1	23,650





Design Memos 15-17 and 15-18

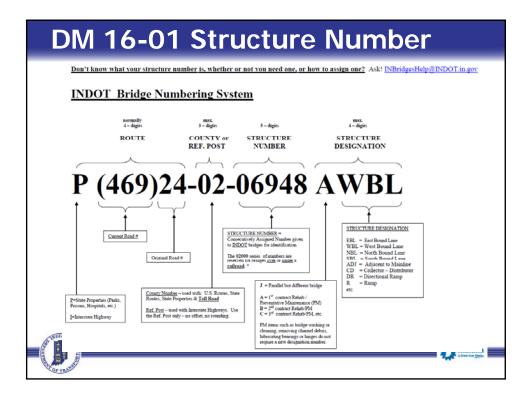
- 15-17 Contract Letting Questions
 - Designers should not answer questions directly from the contractor prior to letting.

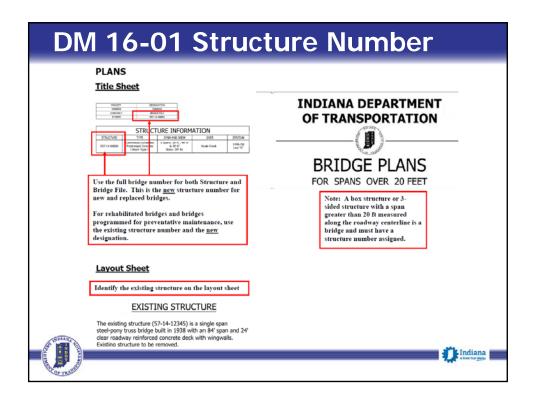


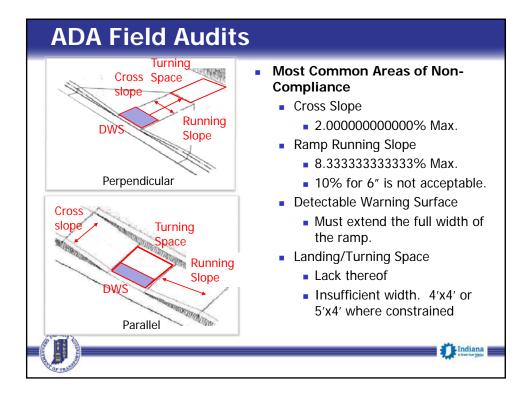
- 15-18 Performance Evaluation Guidelines
 - Clarification of Responsible Persons,
 - Addition of an evaluation appeals deadline,
 - Explanation of selection scoring rules,
 - Subconsultant evaluations, and
 - Description of Performance Types.











DM 15-20 Curb Ramp Details

- Summarizes the main difference between ADAAG and PROWAG for design of ADA facilities.
- Requires sufficient plan details to ensure curb ramps can be constructed compliantly.
- Identifying curb ramp by Type, e.g. Type A, is no longer acceptable.



- IDM 51-1.05: Curb ramps should not have to be field designed.
- Curb ramps constructed on an existing facility require a more details than new construction.





Work In Progress



Curb Ramp Std. Dwgs

- Approved in January, effective September 2016
- new pay item: Curb Ramp, Concrete and Detectable Warning Surface
- Plans should indicate slopes less than the maximum.

Pipe Height of Cover Std. Dwg.

- 715-PHCL, changes to several tables
- 715-PIPE, new material

LRFD 7th Edition

review in progress





Work In Progress

NCHRP 350 to MASH 201X

- AASHTO Standing Committee on Highways adopted the Implementation Plan
- December 31, 2017: w-beam barriers and cast-in-place concrete barrier
- June 30, 2018: w-beam terminals
- December 31, 2018: cable barriers, cable barrier terminals, and crash cushions
- December 31, 2019: bridge rails, transitions, all other longitudinal barriers (including portable barriers installed permanently), all other terminals, sign supports, and all other breakaway hardware
- Temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must have been successfully tested to MASH.





Work In Progress

Controlling Criteria

- Proposed revisions to controlling criteria are on the Federal Register for review.
 - In general fewer criteria overall, and distinctions for high speed vs. low speed roadways
 - Specific content requirements for design exceptions.
- INDOT has the final decision on which elements in additional to the controlling criteria will require a design exception.







Work In Progress

Use of Letter (8 ½" x 11") Plan Size

- Originally developed for district-designed resurface contracts that have very few details, e.g. a typical section and a strip map.
- Full sized (24" x 36") plans should be used where mark ups will be applied to as-built plans, when complex design elements are drawn, and when larger drawings are needed to provided legibility.
- Letter size plans are placed in Section 2 of the CIB.
- File size must be less than 10 Mb [DM 14-13]
- No more than 100 pages (50 pages double-sided) [IDM 14-3.03]
- Every page must be stamped for consultantdesigned plans. [864 IAC 1.1-7-3]





Work In Progress

Bridge Inspection Coordination

- RSP 105-C-249, Effective September 2016 for all B- and R- contracts.
- Identifies bridges within a project's construction limits that are due for inspection, regardless of actual work being performed on the bridge.
- Bridges must be inspected within 90 days of being open to traffic, including maintenance of traffic.
- Designers will need to contact the district Bridge Inspector or query BIAS for the list of structures.







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