### **CHAPTER 11**

### **PLAN REVISIONS**

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#### **CHAPTER 11**

#### PLAN REVISIONS

#### 11.01

## **GENERAL INFORMATION** (8-20-2009)

- A. When it is necessary to change the plans of a project, the CAD (Computer Aided Drafting) files shall be updated and new plan sheets shall be produced. A Revision of Plans Form 291 shall also be prepared. If the revision is for a log job, then a revision box is created on the 8½" x 11" sheet and the revisions are made in the same manner as for plan sheets described in this chapter.
- B. Copies of the Revision of Plans Form 291 in Adobe Acrobat "PDF" format shall be transmitted by the Design Division to the persons and agencies as outlined in Section 11.02. (8-6-92)
  - If the changes are extensive or complicated, the revised plan sheets, in Adobe Acrobat "PDF" format, shall accompany the Revision of Plans Form 291. If the changes can be adequately described on the form, copies of the plan sheets need not be included in the distribution.
- C. If the revision results in a change in a quantity or the addition of a pay item not included in the Contract Proposal, the quantity change shall be identified on the Revision of Plans Form 291. If the quantity change is of a bid item that is routinely balanced at the completion of construction (e.g., Structural Steel, earthwork) and the change is minor, it does not have to be included on the form, but instead it should be noted that the quantity adjustment will be included in the final balancing.

### 11.01 (continued)

- D. When making a plan revision, any change in dimensions or quantities should be made by crossing out the figures/details being revised (do not delete), adding the new figure/detail above or adjacent to the old figure/detail and circling the entire revision. The revision number is placed adjacent to the circled figures/details. As noted in subsection 11.01 A., update the CAD files without deleting the original details.
- E. The revision block on the plan sheets is to be used only for revisions made after plans are advertised for bidding. Revision numbers are prefixed with the letter B. Example: B-1.

11.02

#### PLAN REVISION PREPARATION

#### 11.02.01

#### **General Procedure (8-20-2009)**

The following guidelines should be used in preparing plan revisions:

- A. Revise CAD files affected and produce new plan sheets (8½" x 11" sheets for log job).
- B. Prepare Revision of Plans Form 291 and Plan Revision Distribution Form 211. For examples of these forms see Appendix 11.02.01 or MDOT web site. (8-6-92) (5-28-2013)
- C. Submit the completed forms and revised plan sheet(s) (if required) in Adobe Acrobat "PDF" format to the following for signatures:
  - 1. Project Manager/ Development Engineer. (12-5-2005)
  - Resident/Delivery Engineer (12-5-2005)

### 11.02.01 (continued)

- D. Combine signed/approved Revision of Plans Form 291, Plan Revision Distribution Form 211 and the revised plan sheets (if required) in Adobe Acrobat "PDF" format and name the file PLANREV1.PDF (or subsequent numerical naming if multiple).
- E. Save the file (drawings and forms) in ProjectWise (MDOT internal plan management system) in the folder entitled "Letting Plans and Proposal" and the sub-folder entitled "Plan Revisions and Shop Drawings". If the sub-folder has not been created, contact the local or central office ProjectWise Administrator for assistance.

For additional information and procedures regarding MDOT ProjectWise see pwname://MDOTProjectWise/Documents/Reference Documents/E-Proposal/Plan Rev-Shop Drawings

### 11.02.01 (continued)

#### **General Procedure**

#### F. Distribution

#### 1. MDOT

From ProjectWise, send an email link from PLANREV1.PDF, to all affected "MDOT" staff notifying them that a plan revision is available. List of possible recipients includes:

- a. Construction Files
- b. TSC Delivery Engineer
- c. Bridge Design Unit (if structure affected)
- d. Road Design Unit (if grade, alignment or drainage affected)
- e. Bridge Management Unit –
  Design Division (Load Rating
  Engineer) (if change affects load
  capacity of structure)
- f. Structural Fabrication Unit Operations Field Services Division (if change affects beams or other structural elements)
- g. Utilities-Permits Section –
   Development Services Division (if change in quantities chargeable to a utility company)
- h. Railroad Coordination Unit Office of Rail

#### 11.02.01 (continued)

#### 2. Non-MDOT

Distribute copies of Revision of Plans Form 291 and the revised plan sheets (if required) in Adobe Acrobat "PDF" format, to any "non-MDOT" affected agencies. List of possible recipients includes:

- a. FHWA (FHWA oversight projects) See Section 11.02.03
- b. Consultant
- c. City (if participating)
- d. County (if participating)
- e. County Drain Commission
- f. Utility
- g. Steel Reinforcement Fabricator
- h. Fabricator (if structural steel or prestressed concrete is affected)
  - 1) Steel beams or pile bents
  - 2) Tube railing
  - 3) Bearings
  - 4) Expansion joint device
  - 5) Stay in place forms
  - 6) PC beams
  - 7) MSE wall units
  - 8) Culverts

(10-22-2012)

#### 11.02.02

### Plan Revisions Involving Shop Details and Suppliers

Plan revisions involving shop details and suppliers will always require that revised detail sheets be included with Revision of Plans Form 291.

#### 11.02.03

## Plan Revisions Involving FHWA Oversight Projects

- A. Plan revisions involving FHWA Oversight projects that originate in Design Division are to be reviewed by and discussed with the FHWA before they are distributed. (8-6-92)
- B. Indicate on Revision of Plans Form 291 the date of FHWA approval. (10-22-2012)
- C. Exceptions to the above would be plan revision(s) involving dimensions, small changes in quantities, or a similar omission in the plans.

#### 11.02.04

#### **Plan Revisions Involving Utilities**

On a plan revision involving a change in quantities chargeable to a utility company, send a ProjectWise email link from PLANREV1.PDF to the Utilities-Permits Section in the Development Services Division. (8-20-2009) (10-22-2012)

#### 11.02.05

## Plan Revisions Affecting the Load Carrying Capacity of the Structure

If the plan revision will affect the load-carrying capacity of the structure, send a ProjectWise email link from PLANREV1.PDF to the Bridge Management Unit (Load Rating Engineer) of the Design Division. (8-20-2009) (10-22-2012)

#### 11.02.06

### Plan Revision on Package Contracts (8-20-2009)

- A. On plan revisions concerning bridges in package contracts, where more than one bridge is involved, it is necessary to identify the structure, sheet number(s) and detail(s) involved on the Revisions of Plans Form.
- B. Separate plan revisions should be made for each structure involved even though the revisions are the same or are distributed at the same time.

Michigan Department of Transportation 0211 (08/21)

### **PLAN REVISION DISTRIBUTION**

#### **INSTRUCTIONS:**

Combine revised plan sheets, Form 0291 and this form, all in "PDF" format, name the file PLANREV1.PDF. Coordinate Plan Revision folder creation per Road Design Manual 14.70.01 and place the combined PLANREV1.PDF file in the newly created Plan Revisions folder in ProjectWise.

From ProjectWise, send an email link from PLANREV1.PDF, to all affected "MDOT" staff notifying them that a plan revision is available. Send a copy of revised plan sheets and Form 0291 to all affected "non-MDOT" agencies as noted below.

DESIGN UNIT	REVISION
CONTROL SECTION	JOB NUMBER
DESCRIPTION	***

#### PROJECTWISE LOCATION

MDOT DIS	PLANREV1.PDF FILE		
CONSTRUCTION FILES	ProjectWise		
TSC CONSTRUCTION ENGINEER	ProjectWise		
BRIDGE DESIGN UNIT (if structure affected)	ProjectWise		
ROAD DESIGN UNIT (if grade, alignment or draina	ProjectWise		
BRIDGE MANAGEMENT UNIT – DESIGN DIVISIO capacity of bridge)	N (Load Rating Engineer) (if change affects load	ProjectWise	
STRUCTURAL FABRICATION UNIT – OPERATION Deams or other structural elements)	NS FIELD SERVICES DIVISION (if change affects	ProjectWise	
UTILITIES-PERMITS SECTION – DEVELOPMENT chargeable to a utility company)	SERVICES DIVISION (if change in quantities	ProjectWise	
RAILROAD COORDINATION UNIT - OFFICE OF F	ProjectWise		
NON-MDOT D	DISTRIBUTION	PLANS	FOR <b>M</b> 0291
FHWA (FHWA oversight projects)			
CONSULTANT (if directly affected or consultant des	signed project)		
CITY OF:	(for each city that participates)		
COUNTY OF:	(for each county that participates)		
COUNTY DRAIN COMMISSION (if agency directly			
UTILITY (if agency directly affected)			
STEEL REINFORCEMENT FABRICATOR (if revision			
FABRICATOR (if structural steel or prestressed con			

CC:

Michigan Department
Of Transportation
0291 (09/10)
INSTRUCTIONS: ADD ADDITIONAL SHEETS, IF NECESSARY, FOR "DESCRIPTION OF CHANGES"

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FUND/CONTROL SECTION/JOB NO.		LOCATION						
DATE	REVISION NO.							
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DESCRIPTION OF CR	IANGES							
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NECESSITY FOR CH	ANGE							
PREPARED BY (Unit)				DATE		DATE PLAN REVISED		
APPROVED BY (Project Mgr/Development		Engineer)		DATE		SHEET NO.'S		
APPROVED BY (Basilia (B. III.		_		<del> </del>				
APPROVED BY (Resident/Delivery Enginee		r)		DATE		DATE REVISED SHEETS ISSUED		
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FUND/CONTROL SECTION/JOB NO.		LOCATION					
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		QUA	NTITY	CHANGES			
	ITEM		UNIT	CONTRACT QUANTITY	CHANGE PREV. REV.	CHANGE THIS REV.	REVISED QUANTITY