



Creating Precast Shop Tickets in Revit

Jordan Watkins

Vice President, PTAC Consulting Engineers

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Class summary

In this class you will learn how to create the shop drawings necessary for the precast/prestressed concrete industry in an effective and well-presented manner. These shop drawings will have all of the information necessary for production, including piece weights, lengths, volumes, and counts, as well as the necessary reinforcement and embedded elements within each precast component. This class will walk you through the unique process of utilizing assemblies and schedules within Revit to achieve a desirable shop ticket that any precast manufacturer can use. Finally, this class will show you how to use view templates to maintain the drafting integrity required for precast shop drawings.

Key learning objectives

At the end of this class, you will be able to:

- Use assemblies to create shop drawings.
- Use Revit schedules to create the necessary material counts (bills of material).
- Effectively use view templates to create desirable shop drawings.
- Use Revit to obtain weights, volumes, and dimensions necessary for shop tickets.

How To Use Assemblies To Create Shop Drawings

- About assemblies
- How are assembly types differentiated
- Using EDGE^Revit to create an assembly
- Create assembly views and sheets

How To Use Revit Schedules To Create The Necessary Material Counts:

- About schedules
- Schedules update automatically
- Types of schedules
- Formatting schedules
- How to create a schedule and add to a sheet
- Using EDGE^R to create schedules for shop tickets

How To Effectively Use View Templates To Create Desirable Shop Drawings:

- About view templates
- Creating a view template
 - Creating a view template based on an existing view template
 - Creating a view template based on the settings of a project view
- Apply a view template
 - Apply a view template to all views on a sheet

How To Use Revit To Obtain Weights, Volumes, and Dimensions Necessary For Shop Tickets:

- About material Takeoff Schedules
- Creating a material takeoff schedule
- Using EDGE^R to automatically fill in the volume/weights for shop tickets

<PRODUCT SCHEDULE - FCA>							
A	B	C	D	E	F	G	H
MARK	CONTROL	REQ'D	THICKNESS	HEIGHT	LENGTH	VOLUME	WEIGHT
FCA001	616	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA002	617	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA002	618	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA003	619	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA003	620	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA005	621	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA006	622	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA006	623	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA006	624	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA006	625	1	8"	5' - 11"	59' - 0"	8.4 CY	34,128
FCA004	628	1	8"	5' - 11"	24' - 3"	3.5 CY	14,044
TOTAL: 11		11				87.7 CY	

<GROUT SCHEDULE>	
A	B
GROUT	VOLUME
ERICO HY10L LENTON CEMENTITIOUS GROUT	1.84 CF
84	1.84 CF
FLOWABLE GROUT	29.30 CF
476	29.30 CF
NON-METALLIC NON-SHRINK GROUT	204.63 CF
185	204.63 CF
SAND CEMENT GROUT	4.14 CF
52	4.14 CF

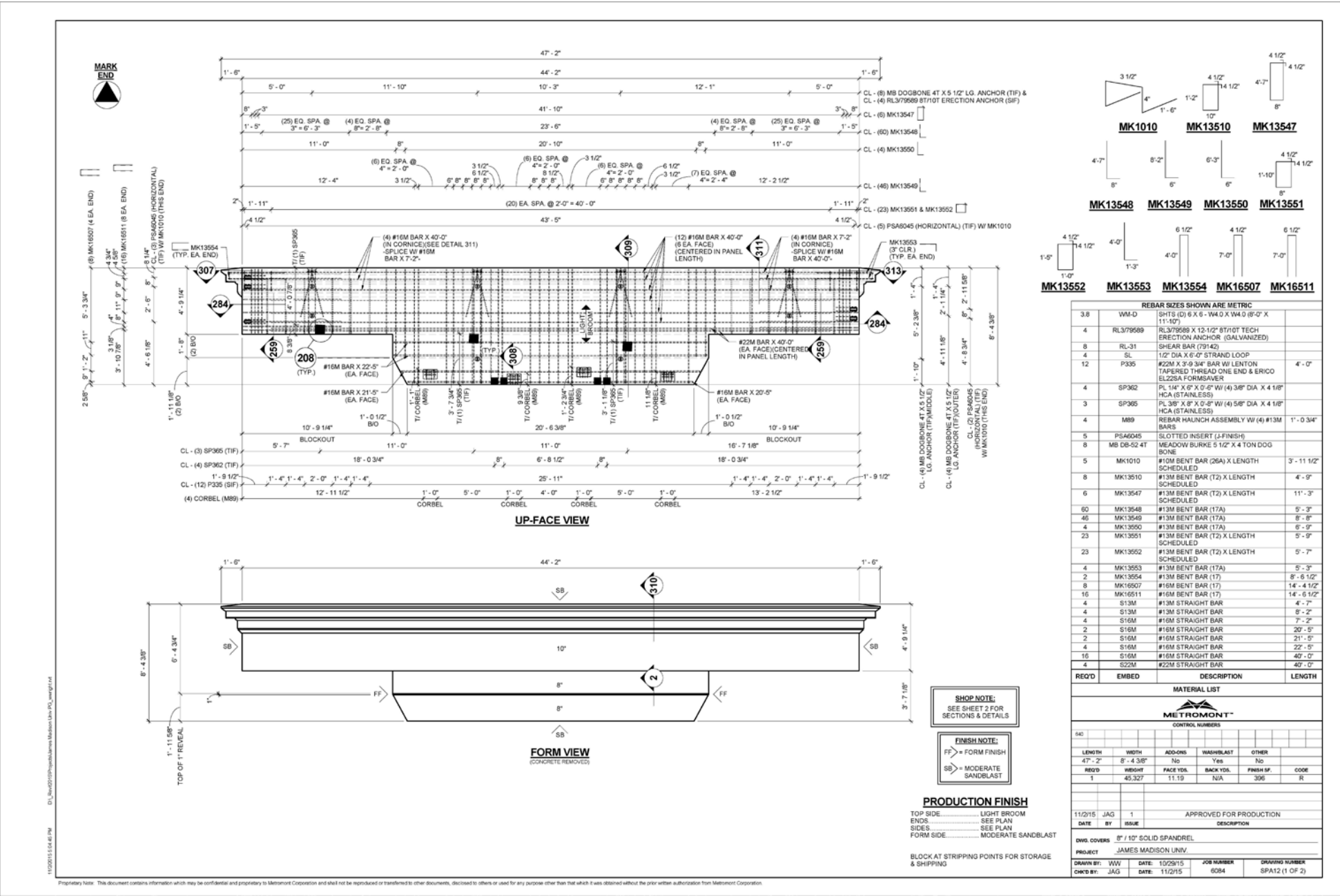
How to Use EDGE^Revit to Automate Fabrication Drawings:

- Using EDGE^Revit to create a shop ticket template
- Using EDGE^Revit to leverage the template for streamlined drafting of fabrication drawings

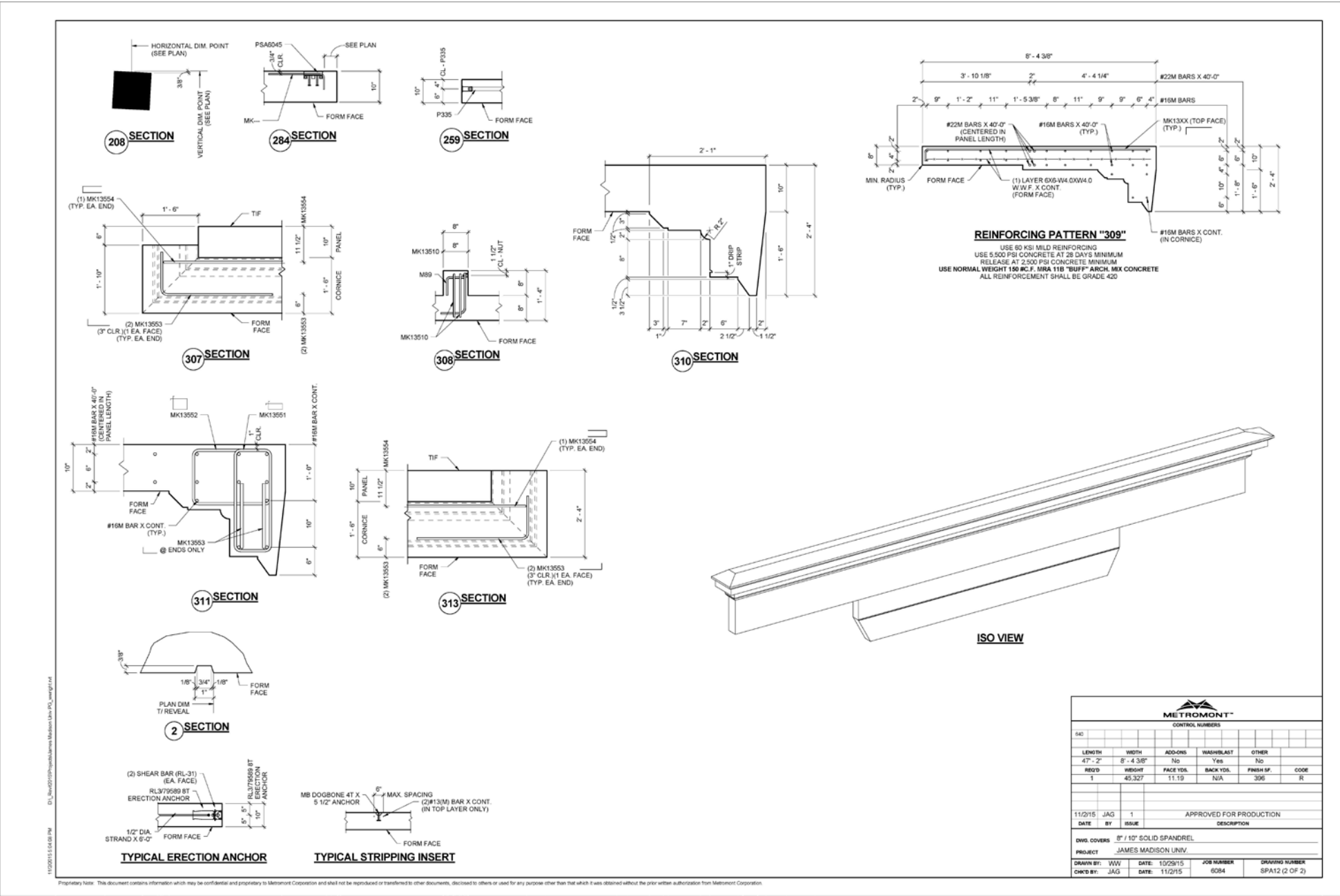
Downstream Advantages to Detailing Shop Tickets with EDGE^Revit

- EDGE^Cloud
 - 3D visualization tool for production to view assemblies and assembly views/sheets with a paperless workflow.
- CNC Machine Exports
 - EDGE^Revit has the ability to export CNC file formats to support the PXML and Unitechnik workflows

Examples of Completed Precast Shop Drawings



Examples Of Completed Precast Shop Drawings (Continued...)



Thank you for attending our class!

- A short video to show all of the benefits of the [EDGE](#) platform for precast!
- Visit us at:
 - www.edgeforrevit.com
 - www.facebook.com/edgeforrevit
- For more information about Edge for Revit, email us at edge@ptac.com.

