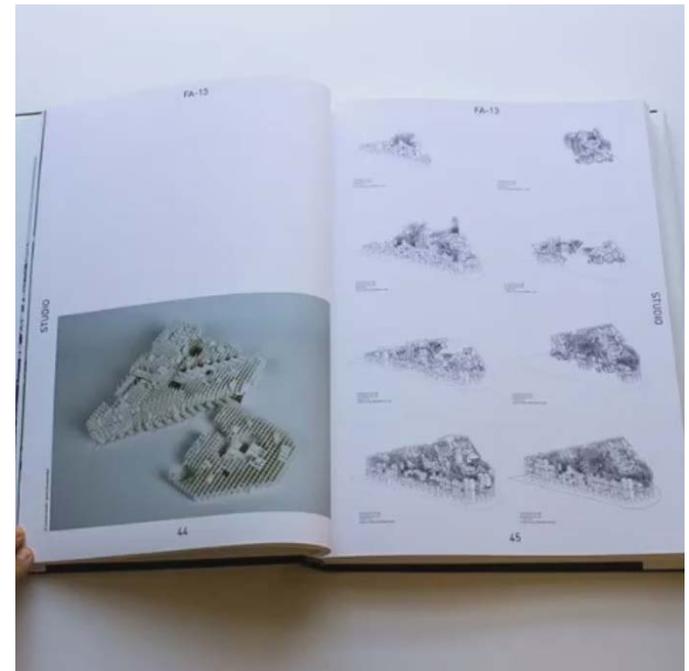
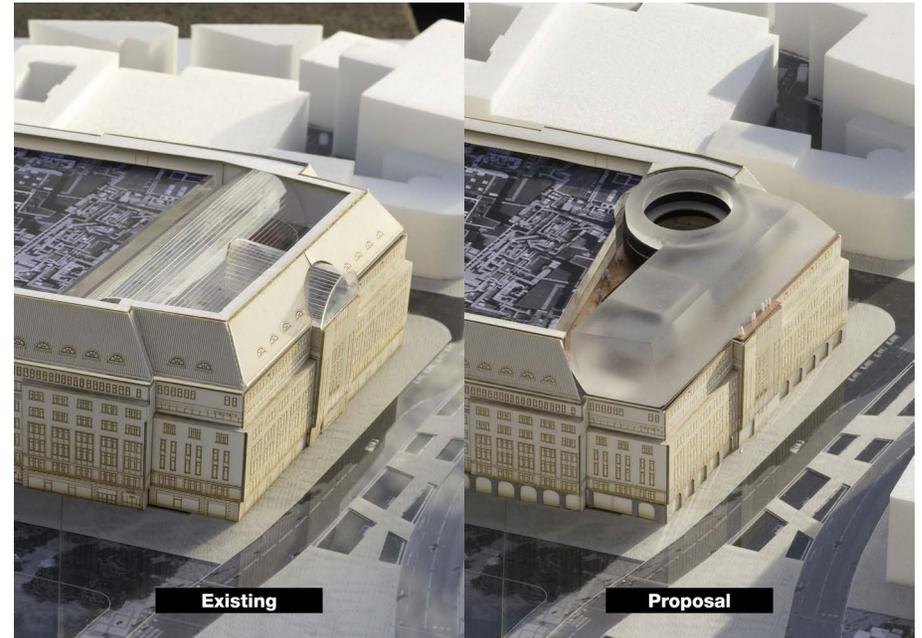
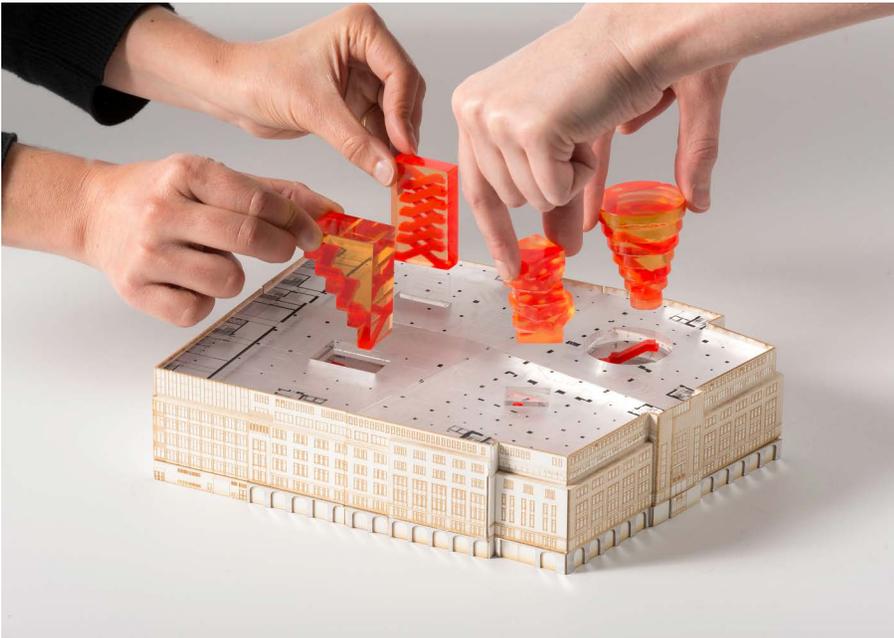


# MODEL PHOTOGRAPHY



GSAPP Award-winning student portfolios

*Using photographs of models to highlight concepts of a project - not only to archive model.*

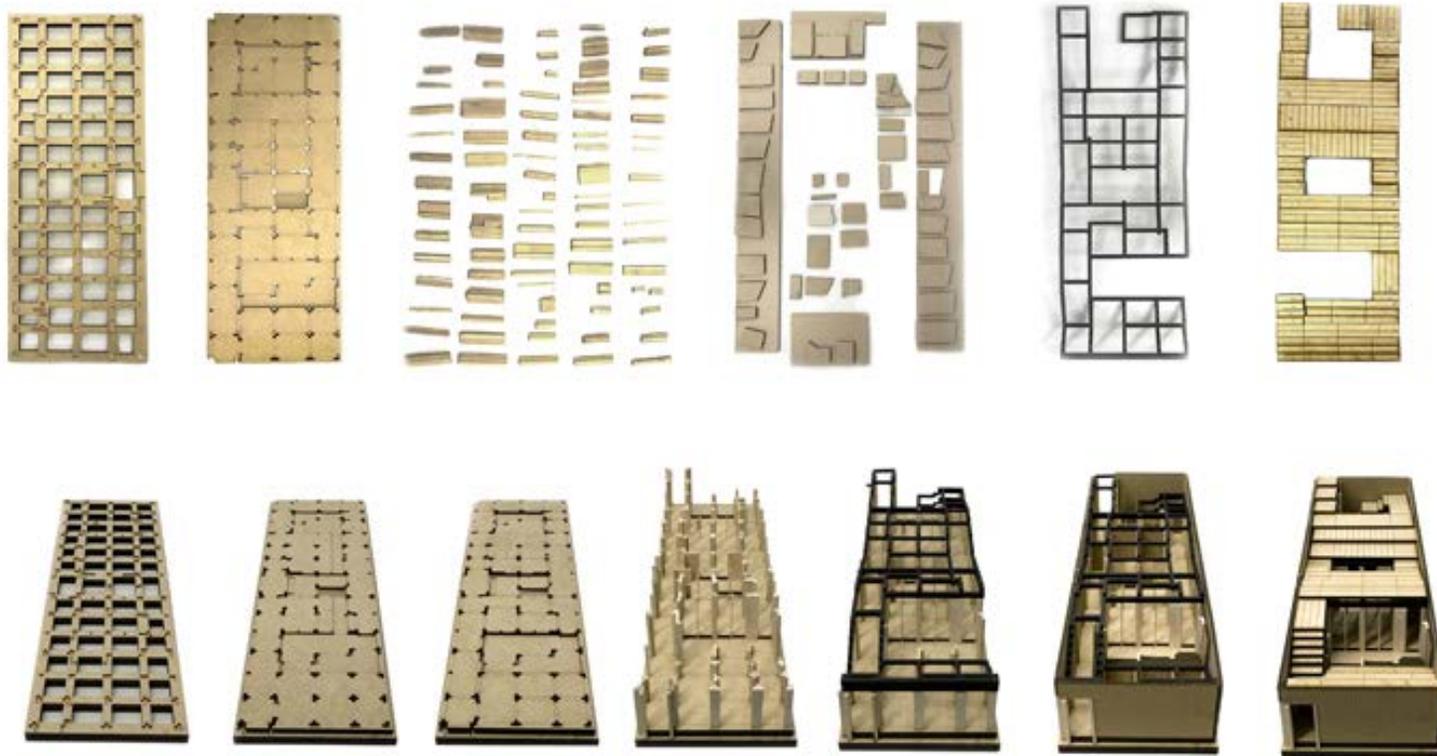


*KaDeWe Renovation*

**OMA**



*Mixed Use No. 2*  
**MOS Architects**

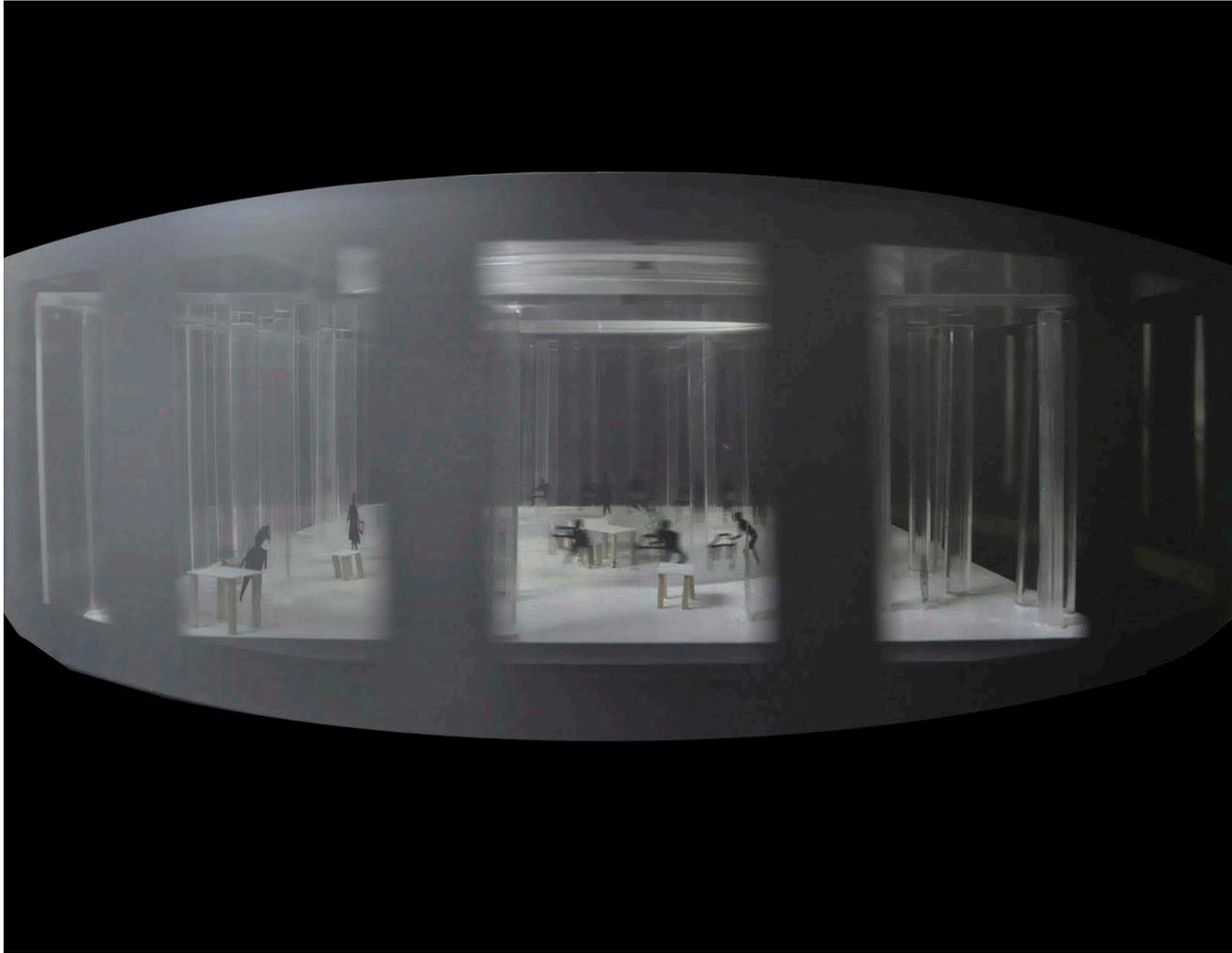


*House for All Seasons*  
**Rural Urban Framework**



*Swing Time*

**Höweler + Yoon Architecture**



*ADR MODEL - Kanagawa Institute of Technology*

**Kimberlee Boonbanjersri**

## HOW TO

Log into [EZOFFICE](#) to activate your account and reserve equipment.  
**MAKE SURE TO CLICK "Login Using Columbia UNI ID"** DO NOT type your Columbia email and password into the normal email login

Refer to the [EZOffice PDF](#) for a step-by-step instruction guide on using the equipment request site.

## GUIDELINES

- A reservation confirmation is required to check out any equipment
- Sequential reservations are not permitted. This ensures equipment availability for all students. You must return your equipment according to your approved reservation.
- Requests must be:
  - Submitted 1 business day before your reservation
  - Submitted weekdays by 5pm
- Requests made after 5PM will not be processed until the next business day
- Requests are not processed over the weekend
- Your reservation is not confirmed until you receive an email from GSAPP AV
- Your Columbia UNI account will be disabled if equipment is not returned on time
- Reservation Periods:
  - 48hr: Cameras, tripods, audio recorders, lighting kits, and GPS devices. – If checked out on a Thursday or Friday, equipment will be due the following Monday.
  - 24hrs: – If checked out on a Friday, equipment is due the following Monday
  - Same day: Laptops, projectors,
  - No reservation necessary: USB remotes, laser pointers, & laptop adapters

## REMINDERS

Equipment pick-up from GSAPP AV Office. If you do not receive an email confirmation within 24 hours, please email us directly.

The following rooms have built-in computers. Please do not request laptops for these rooms: - Fayerweather 209 RED Classroom, 202 UP Lab - Avery 113, 114, 115, 600 Ware Lounge

The following rooms have projectors installed in them. You may use your own laptop or request one from GSAPP AV. Please do not request a projector for these rooms: - Fayerweather 209, 202 UP Lab, 301 - Avery 113, 114, 115, 600 Ware Lounge - Buell 200N

[For more information on classroom specs and capability refer to this page](#)

AVAILABLE AT THE AV OFFICE



Tripods



DSLR Camera

Canon t5i  
w/ 18-55mm lens



Lighting equipment

# WORKFLOW

## **i. SET-UP**

LIGHTING

TRIPOD

BACKDROP



## **ii. PHOTOGRAPHY**

MANUAL SHOOTING

1. Image quality
2. White balance
3. Aperture
4. Shutter speed
5. ISO



## **iii. EDITING**

ADOBE BRIDGE

- Batch editing via  
CAMERA RAW
- Image processing via  
PHOTOSHOP

*DEMONSTRATION*

## i. SET-UP

# LIGHTING

## i. SET-UP

### NATURAL LIGHTING

- More realistic
- Depends on time/weather
- Requires specific context



# LIGHTING

## i. SET-UP

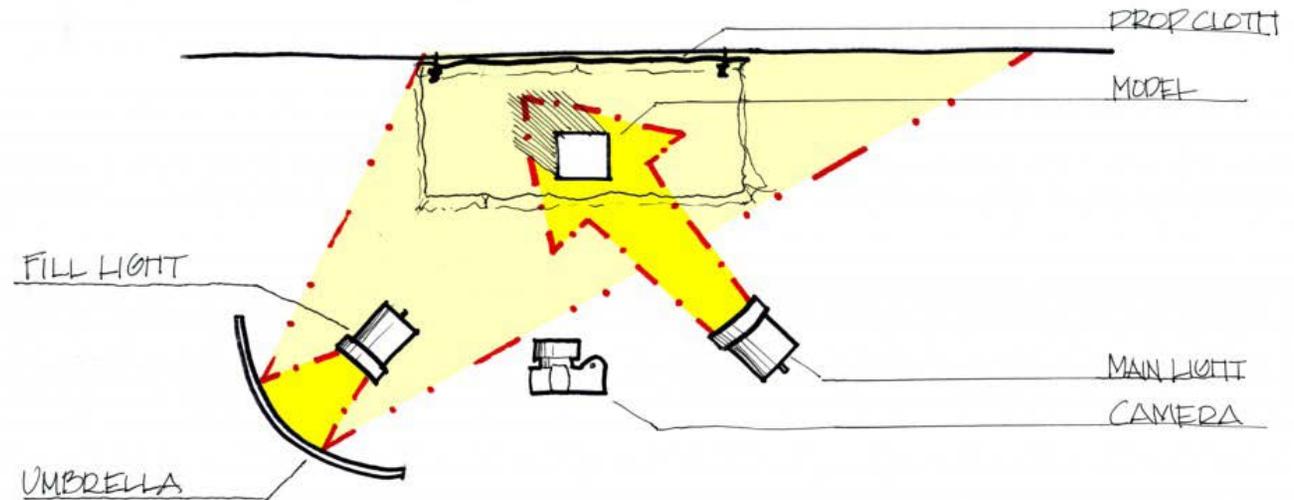
### NATURAL LIGHTING

- More realistic
- Depends on time/weather
- Requires specific context

### ARTIFICIAL LIGHTING

- More control and flexibility
1. Turn off overhead lighting
  2. Fill light (indirect source)
  3. Main light (direct source)

*DO NOT use more than one main light - it will cast multiple shadows*



**LIGHTING**

i. SET-UP



**ARTIFICIAL LIGHTING**

*Model light study*

# TRIPOD

## i. SET-UP

- Consistent images
- Stabilizes camera
- Better for shooting macro
- Flexibility to move around
- Easier to use 'live view'



# BACKDROP

## i. SET-UP

- Minimizes editing and post-processing time
- Cleaner images
- Photo uniformity and consistency
- Light models on dark background, and vice versa.



## ii. PHOTOGRAPHY

MANUAL SHOOTING

# MANUAL SHOOTING

ii. PHOTOGRAPHY



Automatic mode



Manual mode

# MANUAL SHOOTING

## ii. PHOTOGRAPHY

1. IMAGE QUALITY
2. WHITE BALANCE
3. APERTURE
4. SHUTTER SPEED
5. ISO



Canon t5i

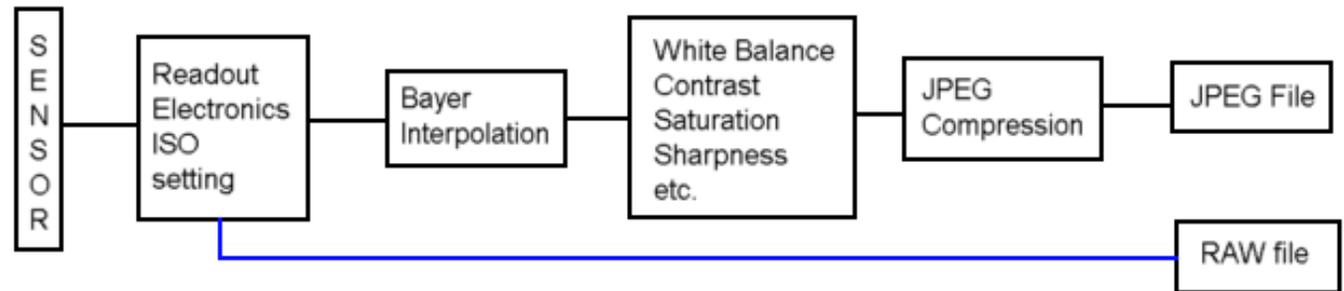
# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 1. IMAGE QUALITY

- **JPEG** are processed within the camera. These files are finished and can be viewed and printed immediately after shot.

- **RAW** files are uncompressed and unprocessed with all of details available to the camera sensor.



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 1. IMAGE QUALITY

- Press "Menu" button



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 1. IMAGE QUALITY

- Select "Image quality"



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 1. IMAGE QUALITY

- Select "RAW"

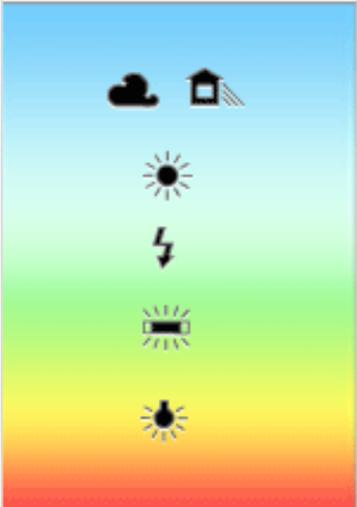


# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 2. WHITE BALANCE

- White balance (WB) is the process of **removing unrealistic colour casts**.
- Proper camera white balance has to take into account the “colour temperature” of a light source, which refers to the relative warmth or coolness of white light.

WB SETTINGS	COLOR TEMPERATURE	LIGHT SOURCES
	10000 - 15000 K	Clear Blue Sky
	6500 - 8000 K	Cloudy Sky / Shade
	6000 - 7000 K	Noon Sunlight
	5500 - 6500 K	Average Daylight
	5000 - 5500 K	Electronic Flash
	4000 - 5000 K	Fluorescent Light
	3000 - 4000 K	Early AM / Late PM
	2500 - 3000 K	Domestic Lightning
1000 - 2000 K	Candle Flame	

# MANUAL SHOOTING

## ii. PHOTOGRAPHY



**MANUAL SHOOTING**

ii. PHOTOGRAPHY



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 2. WHITE BALANCE

- Press “WB” button to open white balance menu



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 2. WHITE BALANCE

- Set to the type of light source to correct photograph's image 'warmth'



# MANUAL SHOOTING

## ii. PHOTOGRAPHY



- White balance when shooting warm wood models can be very helpful to create a neutral image

# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 3. APERTURE

- Small set of blades that form an octagonal hole
- Size of aperture is measured in F-STOPS
- Controls **(i) brightness** and **(ii) depth-of-field**



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### APERTURE

#### i. *Brightness*



High F-STOP = Smaller aperture = Darker

**f/7.1**

1/30 sec

ISO 400



Low F-STOP = Wider aperture = Brighter

**f/2.5**

1/30 sec

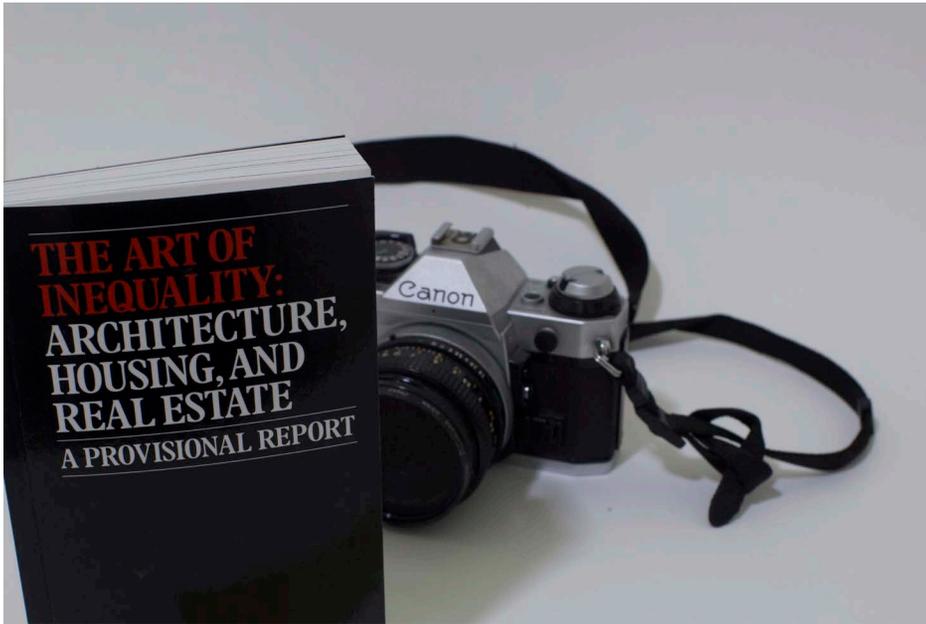
ISO 400

# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### APERTURE

#### ii. *Depth-of-field*

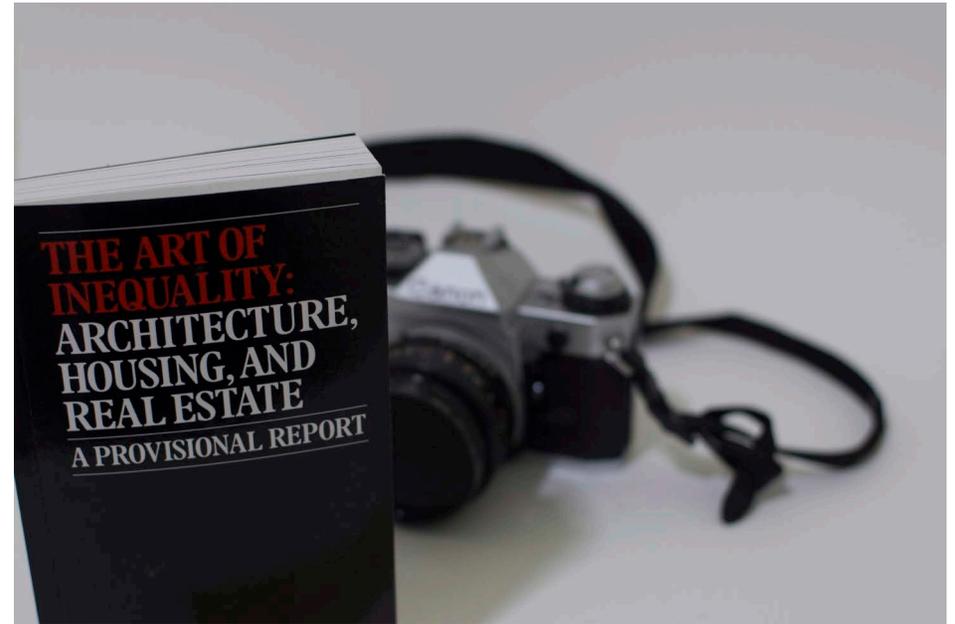


High F-STOP = Smaller aperture = Fuller depth-of-field

**f/7.1**

1/6 sec

ISO 400



Low F-STOP = Wider aperture = Deeper depth-of-field

**f/2.5**

1/30 sec

ISO 400

# MANUAL SHOOTING

## ii. PHOTOGRAPHY



- A high f-stop setting can give more detail (fuller depth of field) when shooting large site models

# MANUAL SHOOTING

## ii. PHOTOGRAPHY



- Lower f-stop = deeper depth of field can blur out background and focus in on details of a model

# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 3. APERTURE

- Press Q button then navigate to aperture control icon
- Should already have current f-stop setting displayed



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 3. APERTURE

- Select desired aperture setting with front dial

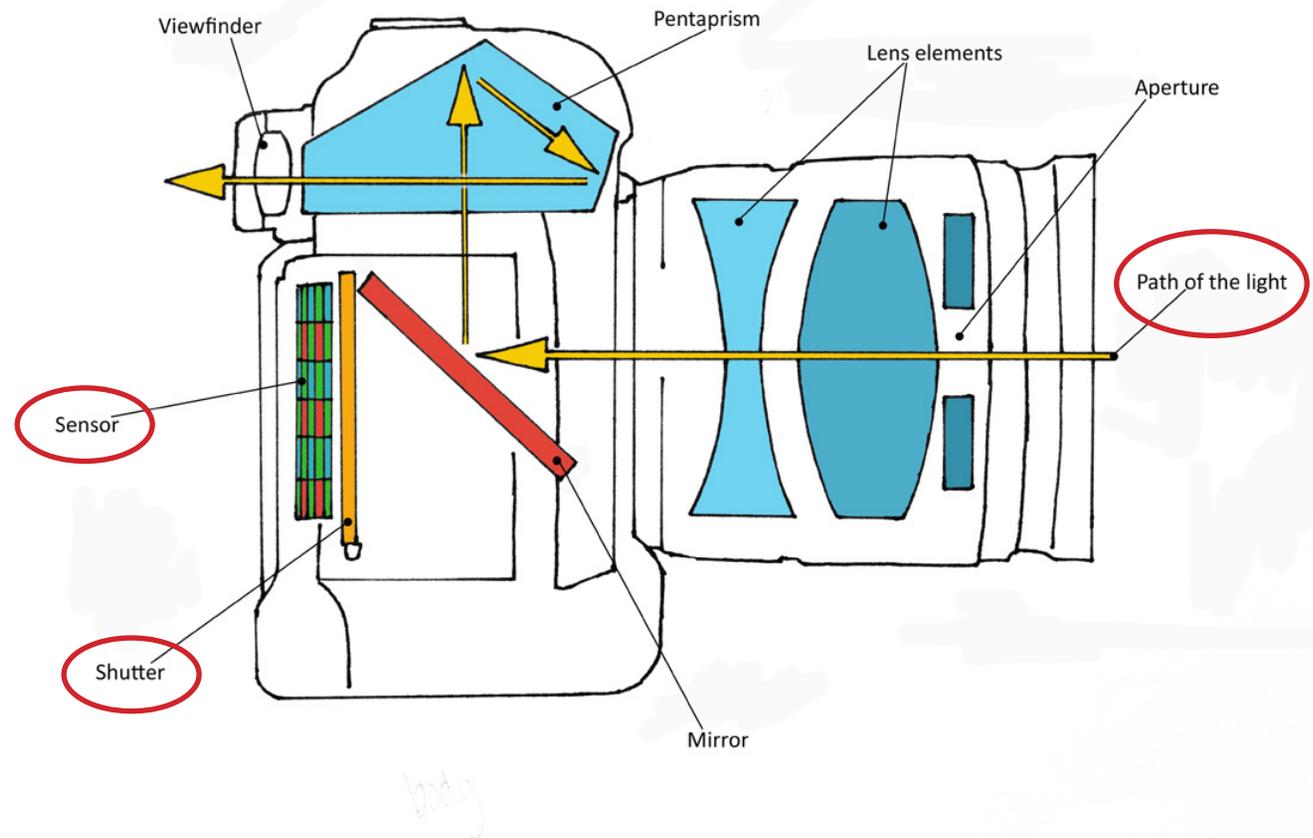


# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 4. SHUTTER SPEED

- The shutter controls how long light is allowed to hit the camera's image sensor
- The duration of time light hits the image sensor - to 'record' - the photo - is called the shutter speed
- Shutter speed is typically measured in fractions of a second (ex. 1/30 sec)
- Determines **brightness** and **blur**



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### SHUTTER SPEED

*Brightness*



Faster shutter speed = Darker

f/4.0  
**1/50 sec**  
ISO 400



Slower shutter speed = Brighter

f/4.0  
**1/20 sec**  
ISO 400

# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 4. SHUTTER SPEED

- Scroll front dial to control shutter speed in Manual mode



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### 5. ISO

- Originated from film speed, the measure of photographic film's sensitivity to light
- DSLR: Controls exposure by using a software in the camera to make it extra sensitive to light
- A higher ISO delivers a brighter image, but photo will be noiser/"grainier"
- Controls **(i) brightness** and **(ii) noise**



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

### ISO

#### *i. Brightness*



Low ISO = Darker

f/7.1  
1/25 sec  
**ISO 500**



High ISO = Brighter

f/7.1  
1/25 sec  
**ISO 2000**

# MANUAL SHOOTING

## ii. PHOTOGRAPHY

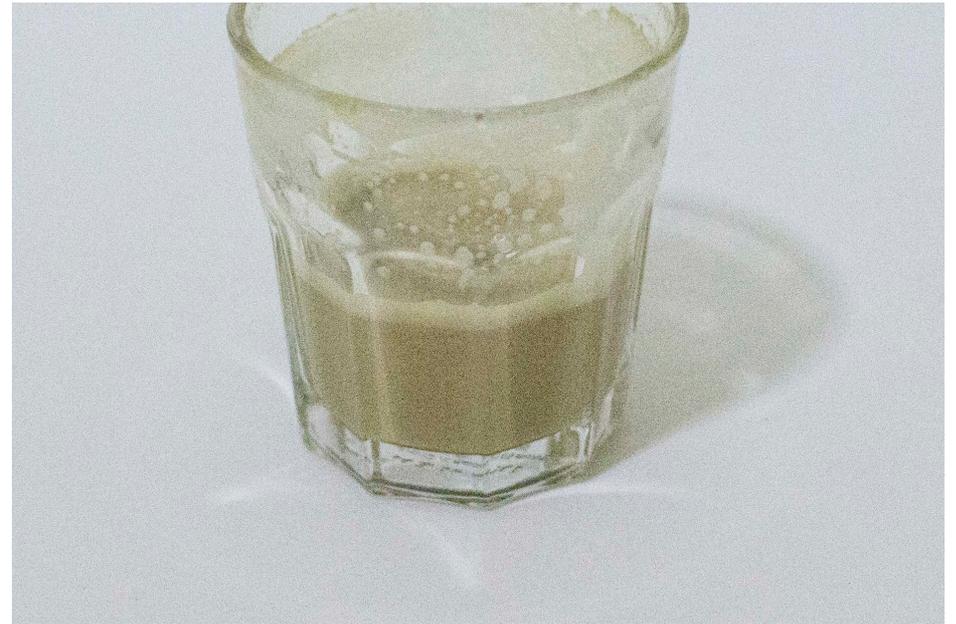
### ISO

#### ii. Noise



Low ISO = Less noise

f/2.5  
1/8 sec  
**ISO 100**



High ISO = More noise

f/2.5  
1/800 sec  
**ISO 6400**

# MANUAL SHOOTING

## ii. PHOTOGRAPHY



### 5. ISO

- Press ISO button on the top of camera then select desired ISO on the screen



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

- LIVE VIEW

Real time preview of what photograph will look like with settings before image is recorded



# MANUAL SHOOTING

## ii. PHOTOGRAPHY

Suggested setting order:

1. ISO - Generally setting a low ISO will give the least noisy images
2. Aperture - then adjusting this setting based on desired depth of field
3. Shutter speed - to compensate for brightness based on previous two settings

DEPTH-OF-FIELD

**2 APERTURE**

BRIGHTNESS

**3**

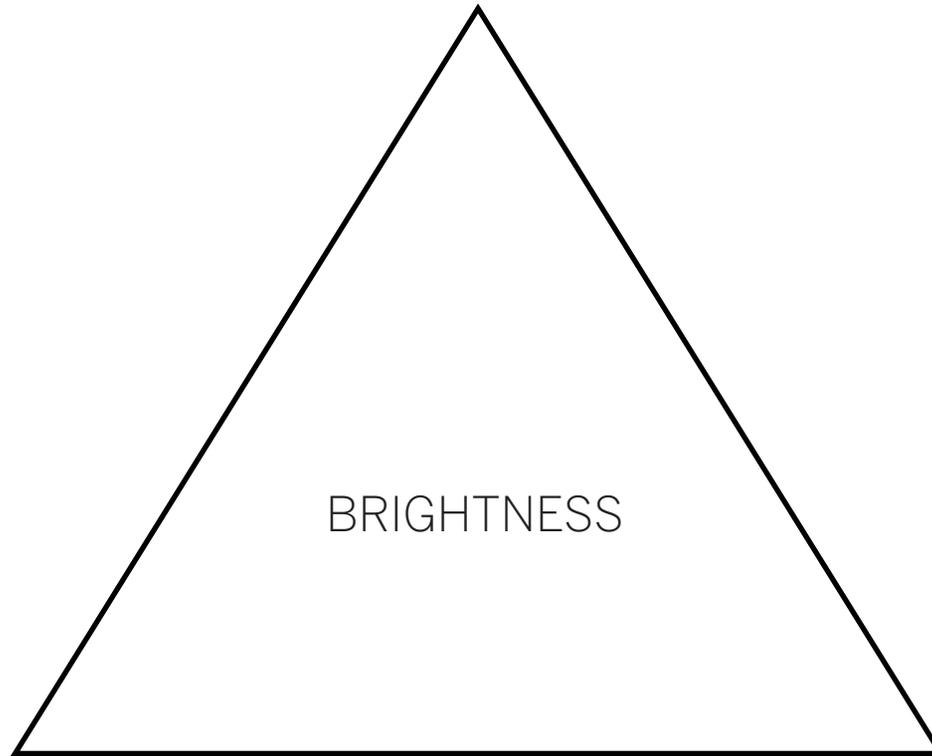
**SHUTTER  
SPEED**

MOTION BLUR

**1**

**ISO**

NOISE



## MANUAL SHOOTING

Typical archival shots

*Typical angles for photographing models for archiving purposes can imitate views of projects in drawings - these are in addition to more experiential views specific to each model.*



AXON PERSPECTIVE



AXON PERSPECTIVE



AXON PERSPECTIVE



AXON PERSPECTIVE



ELEVATION



ELEVATION



ELEVATION



ELEVATION

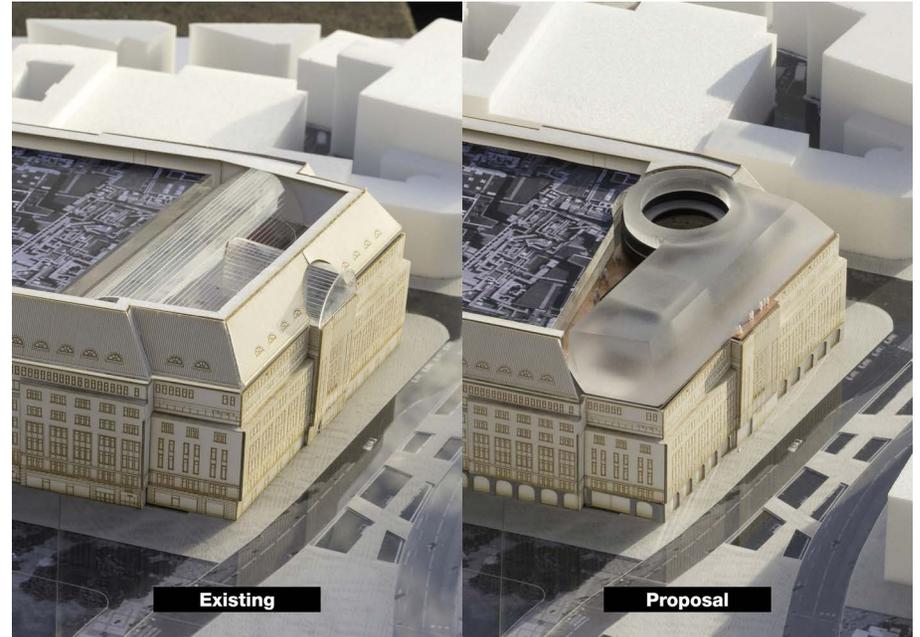
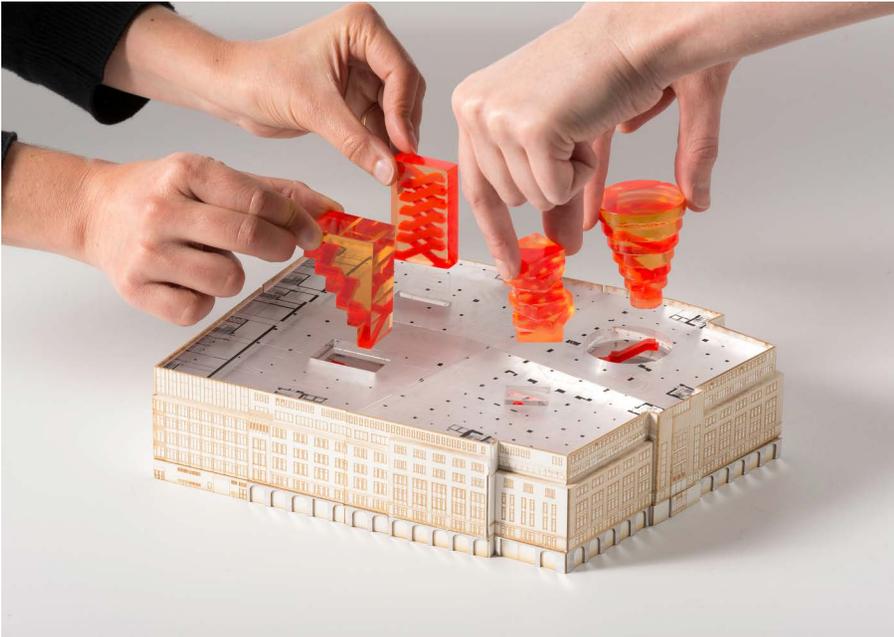


ELEVATION



ELEVATION

*The two images were probably shot with artificial lighting on a white backdrop with a tripod to create consistent images and flexibility to manipulate models with hands*



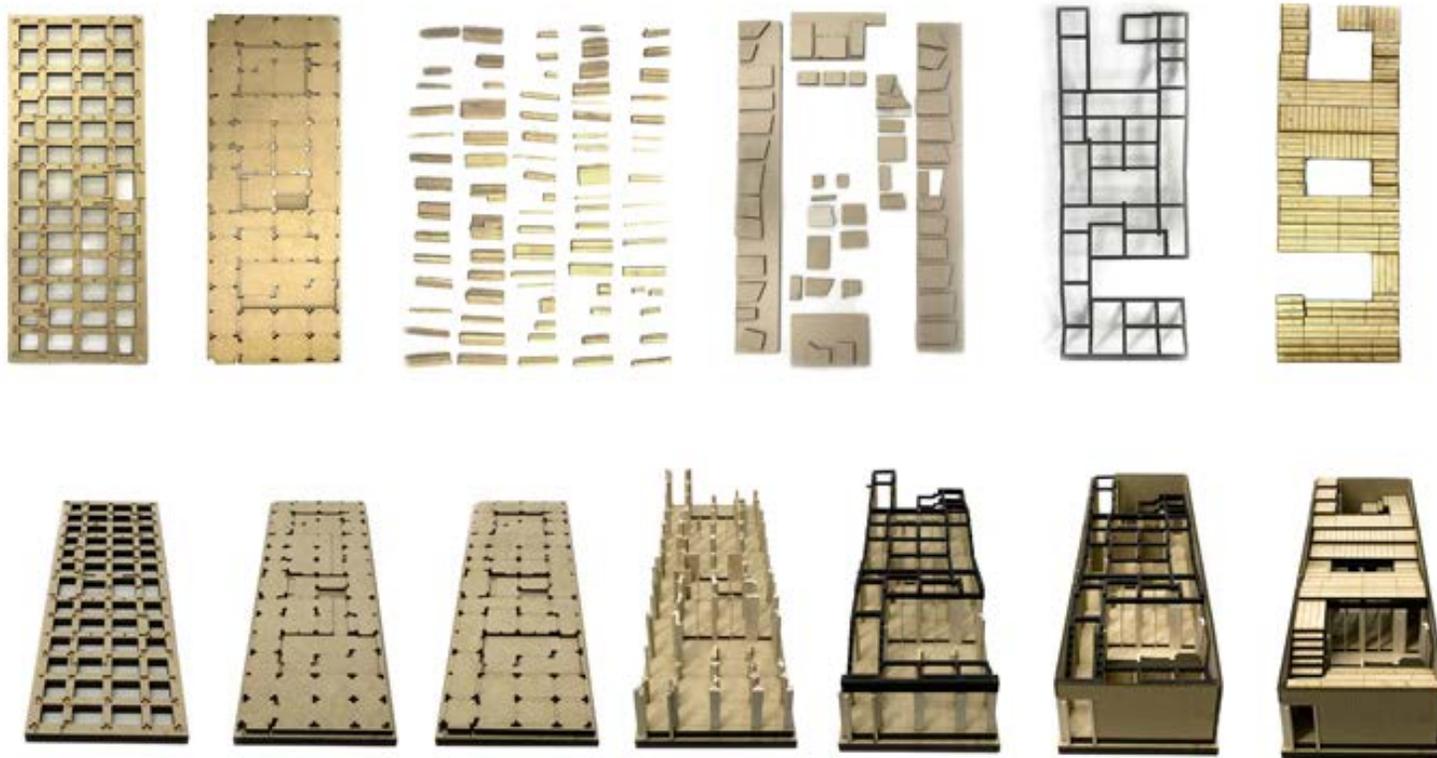
*KaDeWe Renovation*  
**OMA**

*Shot with a high aperture (to get details in the back) and slow shutter speed with a tripod to keep camera steady. Probably low ISO to achieve variations of lighting effect.*



*Mixed Use No. 2*  
**MOS Architects**

*Multiple photographs compiled together. Shot with one tripod setting for plan images + another tripod setting for perspective shots.*



*House for All Seasons*  
**Rural Urban Framework**

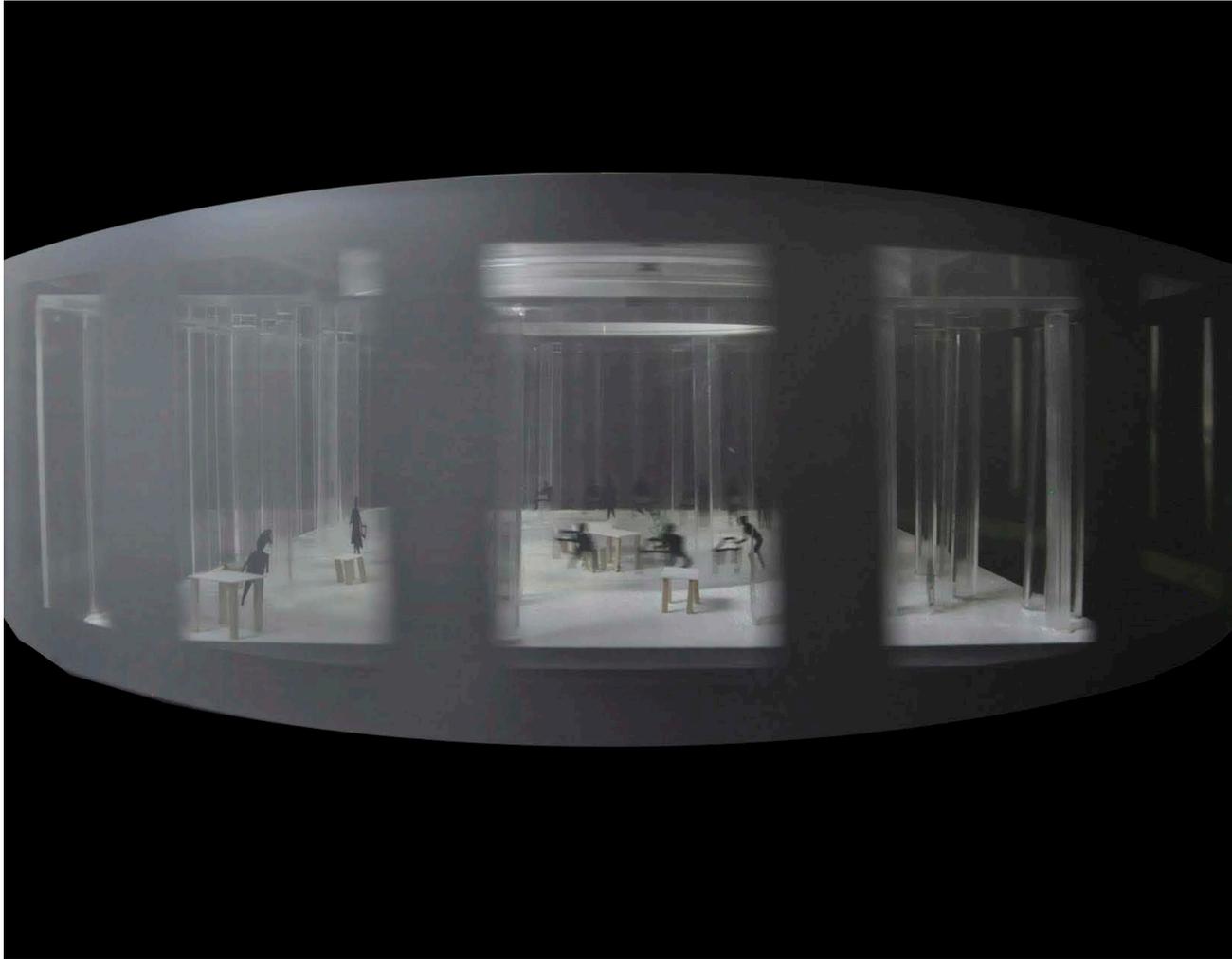
*Slow shutter speed to get motion blur and with a tripod. High aperture setting to include details in the background (ex. apartment building).*



*Swing Time*

**Höweler + Yoon Architecture**

*Slow shutter speed to give motion blur effect and high f-stop to include details of small furniture in the entire model.*

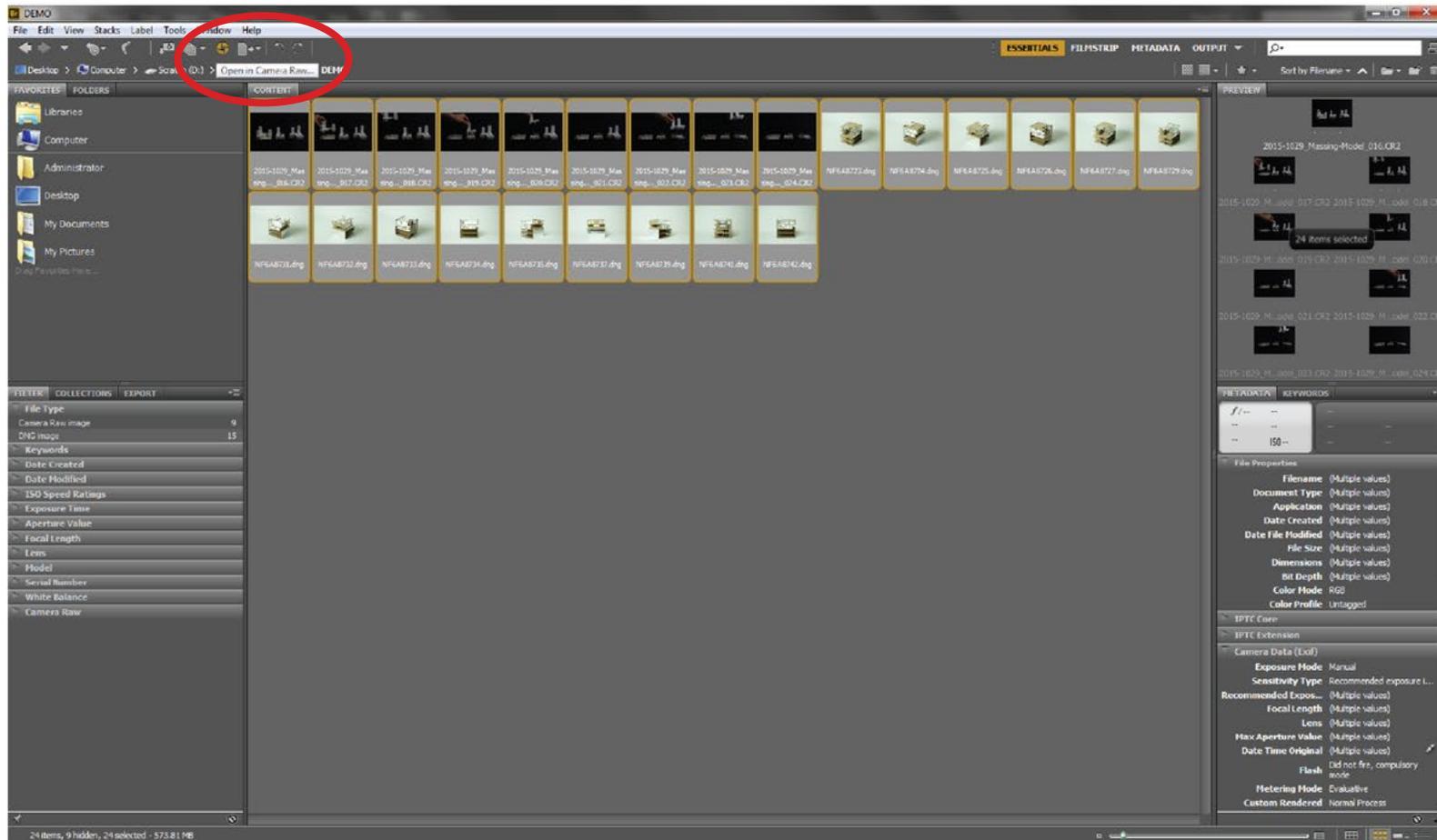


*ADR MODEL - Kanagawa Institute of Technology*

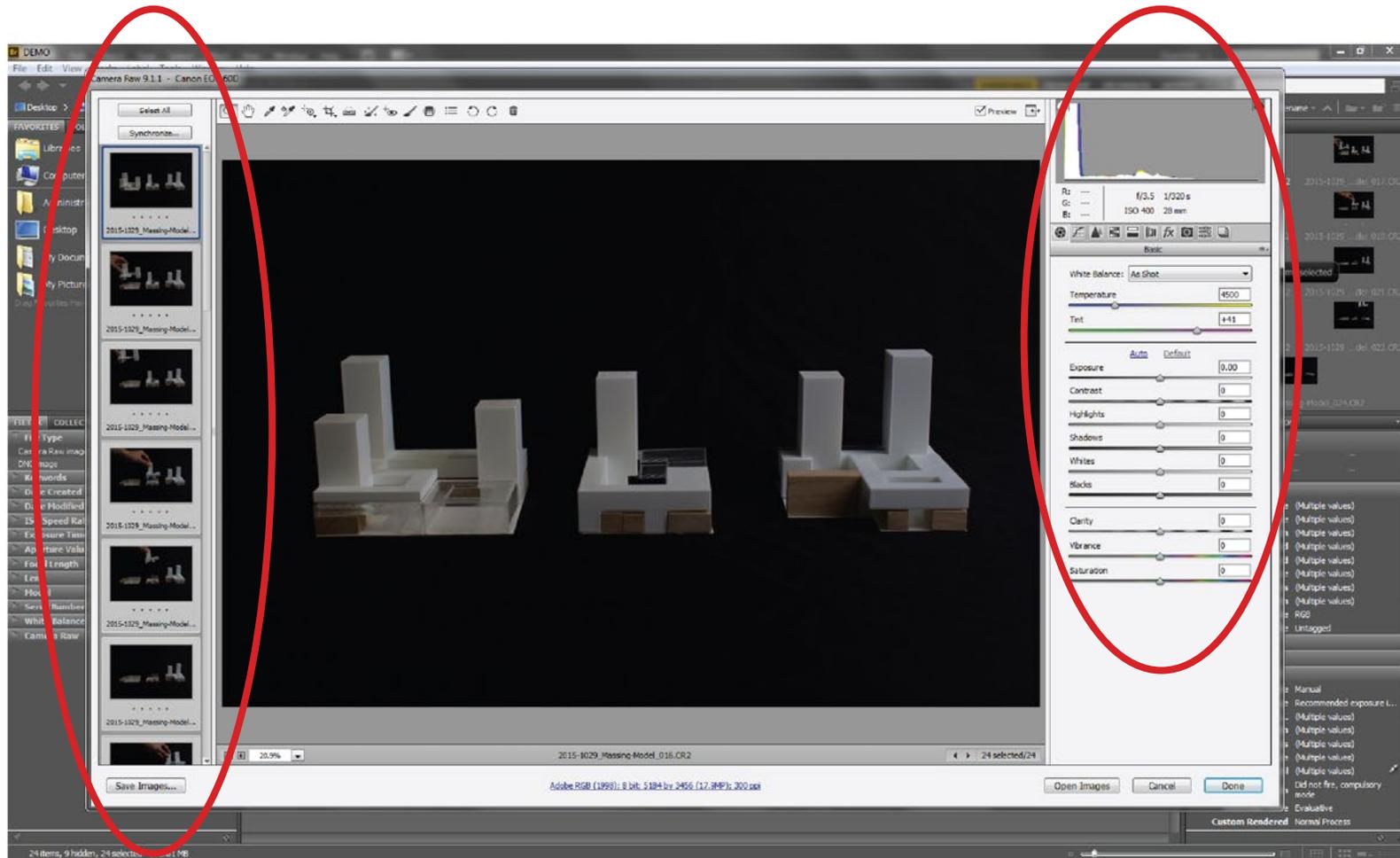
**Kimberlee Boonbanjersri**

## ii. EDITING

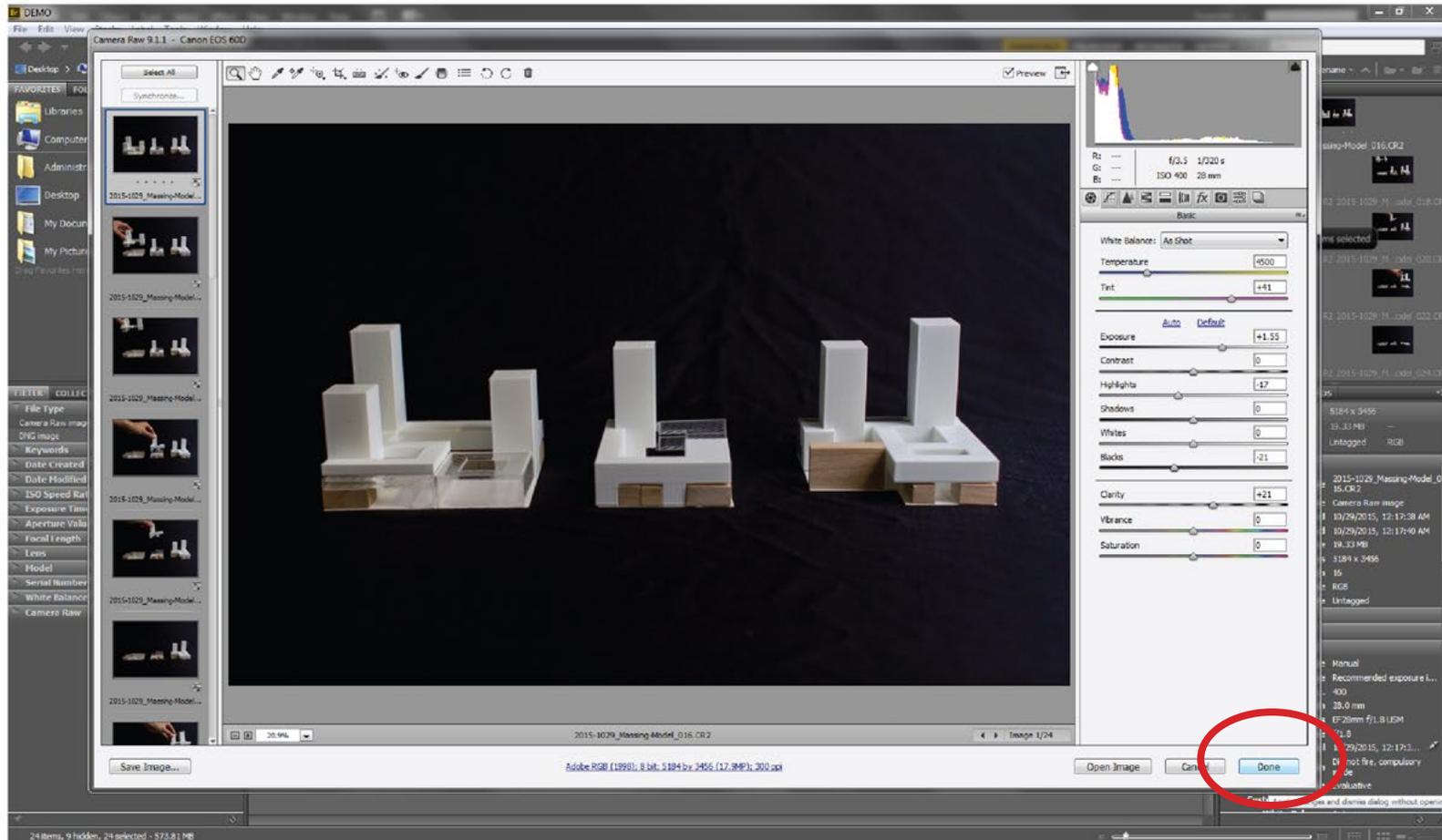
ADOBE BRIDGE DEMONSTRATION



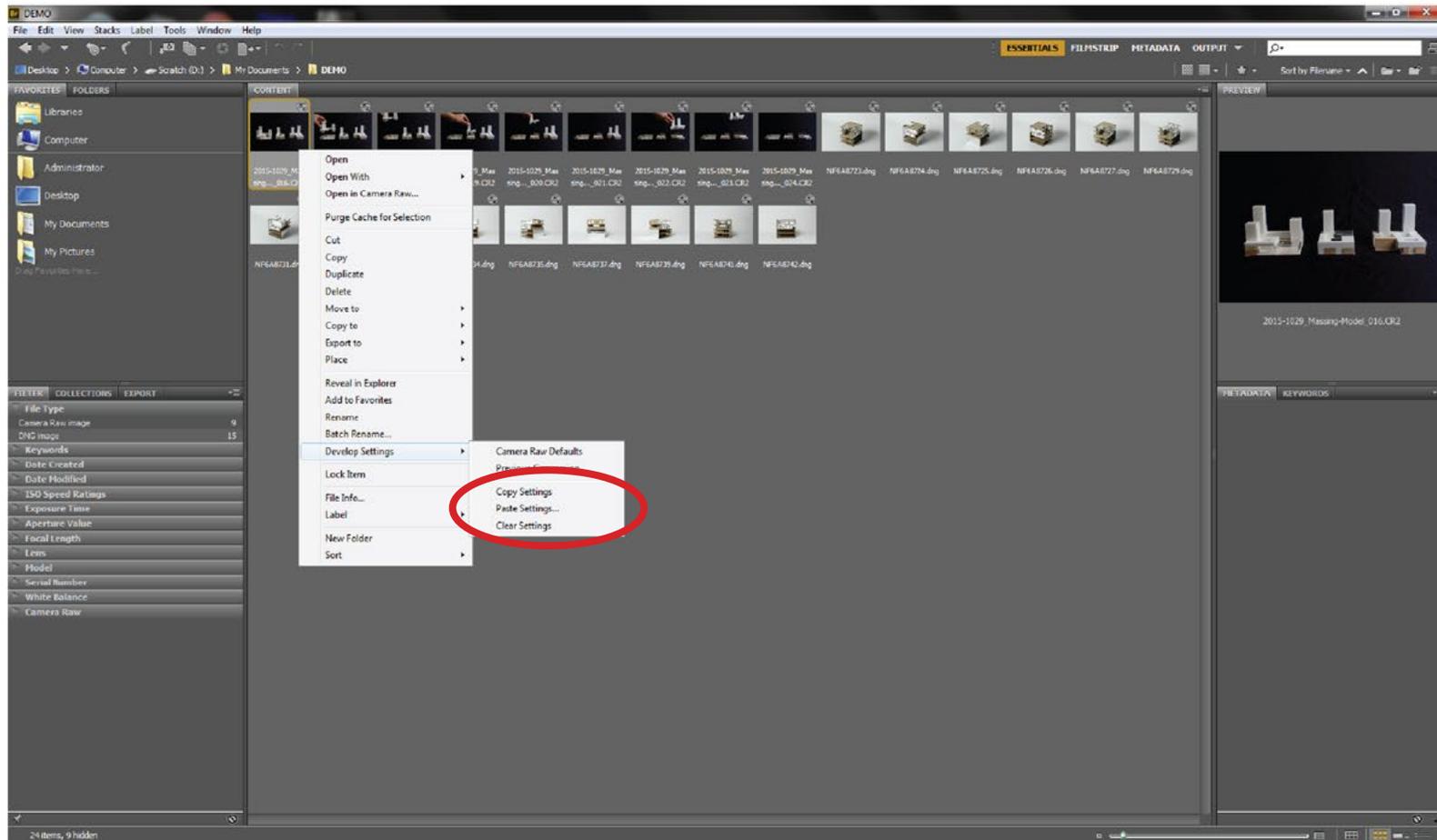
- Open **Adobe Bridge** and, in Bridge, navigate to image files (*as you would in Windows Explorer so the files could be on the desktop's hard drive or in an external hard drive*).
- Highlight images to edit and click the **Camera Raw** icon to open up the program.



- Select image(s) on the left thumbtail column to apply edits
- Tabs and toggles with values on the right side column to edit files
- Only highlighted image(s) will have edits applied meaning you can edit just one or simultaneous apply edits to multiple files at once.

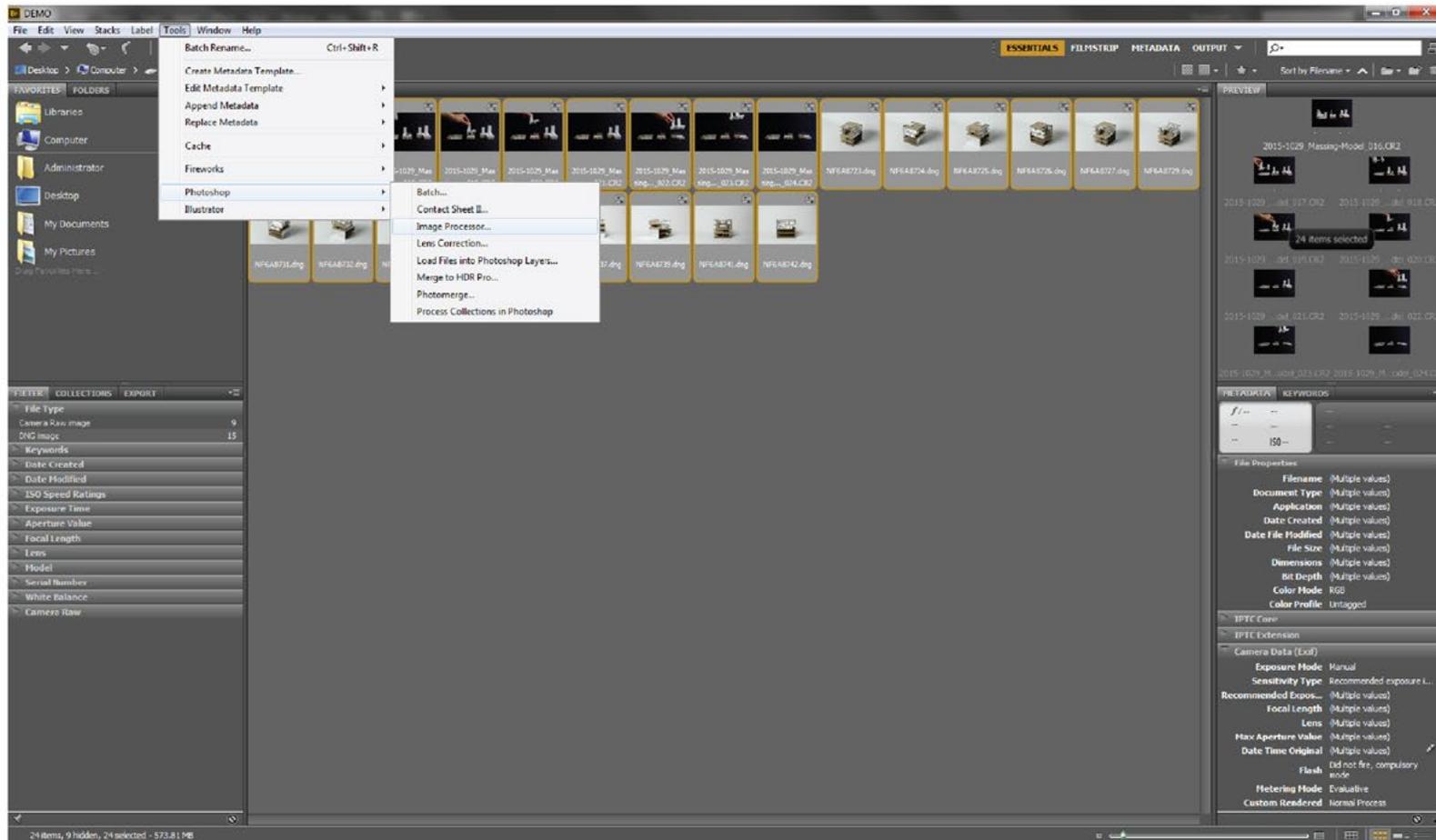


- Once you are done applying edits to images, click **Done**.  
*Don't click "Open Image," it will open the highlighted files in Photoshop.*

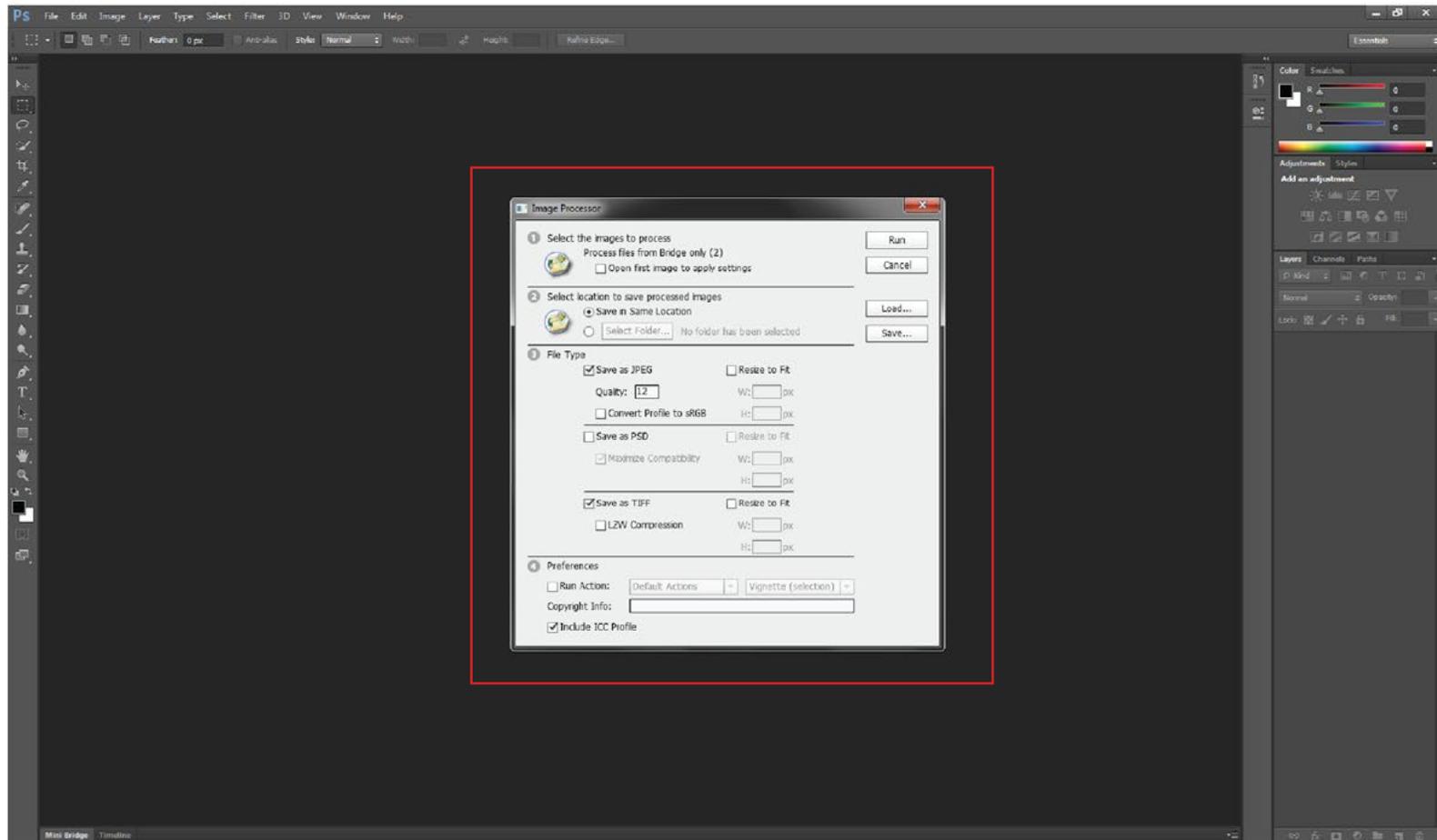


- You can also select files with edit setting you want to apply to others and apply/paste them to other files.
- **Right click > Develop Settings > Copy Settings/Paste Settings**

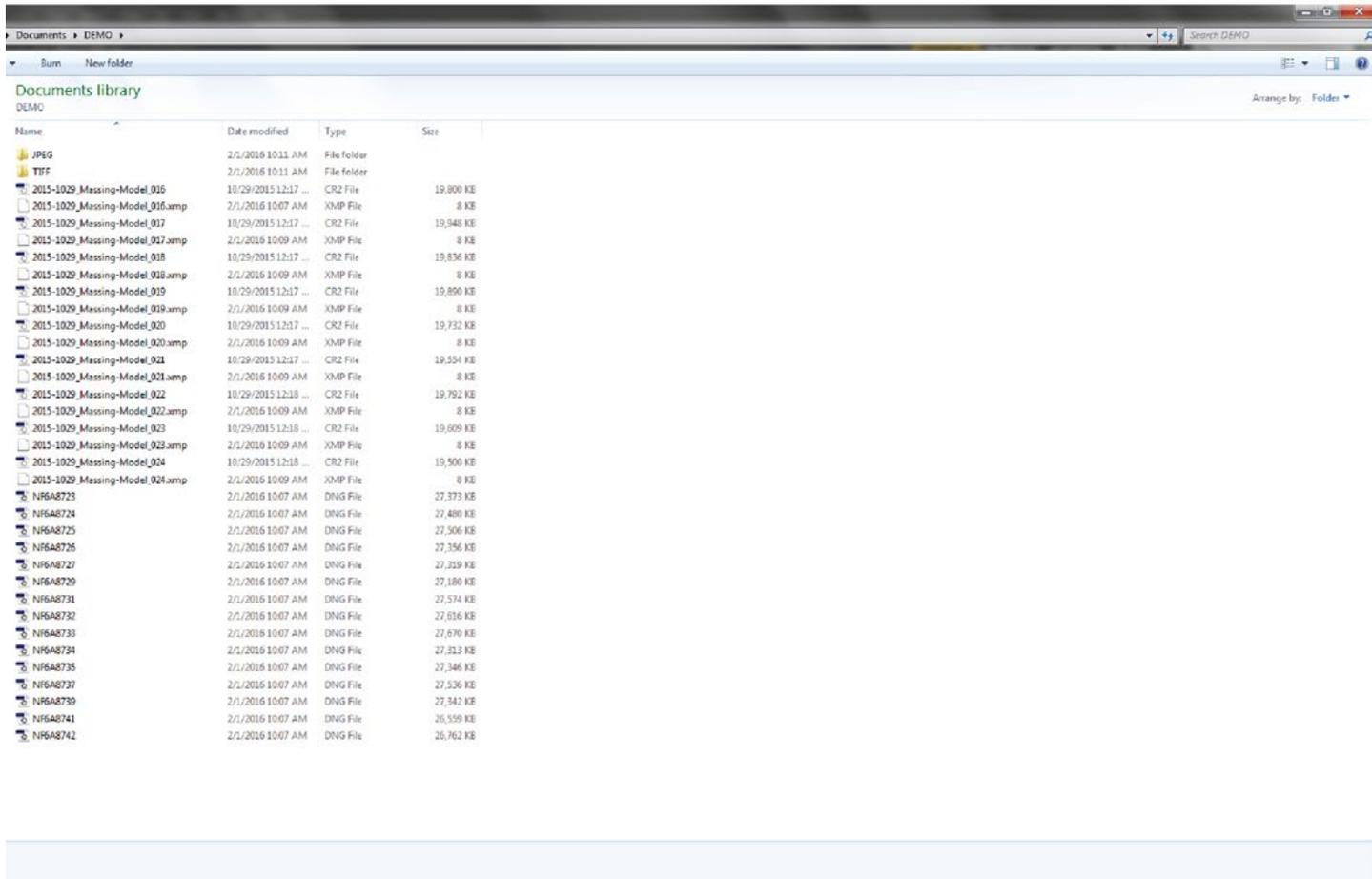
*If images were shot with same settings on Manual Mode, the edit settings should have the same effect on those other files.*



- Once edit to images are done, they can be processed out through Photoshop to permanently apply edits to files.
- **Tools tab > Photoshop > Image Processor**
- *Note: all edits applied in Adobe Bridge through Camera Raw are non-destructive so original image files are still there - edits are actually created as temporary files in the same folder.*



- Photoshop will process images files with edits into a new folder without altering original image files.
- Options to process images files out as JPEG, PSD, and/or TIFF files.
- When settings are done, press **Run** and Photoshop will process out new images files.



- Once Photoshop is finished, the new images will be placed into new folders either in the same folder or in a new destination chosen in the dialog box in Photoshop in previous step.
- Notice the new .xmp files next to the original image files, they are the edits applied to the image files in the form of temporary files meaning the original files are untouched.