

CHAPTER 5 CHECKLISTS - FOUNDATION



A. MAKING COMPONENTS

Construction models require simple components to minimize file size and maximize visual flexibility.

maximize visual flexibility.	
	Build simple components No color or texture Extrude 3D from 2D Embed stand-in dummies Use handles for alignment Save to a components folder Regularly update your collection
Set up visuall	ORK AREAS & SCENES owork areas and scenes to both y scale the model and simulate nent as you stage the process.
	Stage the jobsite in phases Use scaled equipment and tools Insert components from a library Outliner organizes the assembly Hide and unhide for staging Set Scenes for the work Use Scenes to move around
Use st assem	DOTING FORMWORK ring lines to align components and ble the formwork and reinforcing e footing.
	Plumb-bob from the string lines Locate the workpoint Add components for formwork Copy and rotate into position Use segmented lines and guides Add reinforcing, copy and rotate

 \square Delete guides and layout lines

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D. PLACING CONCRETE Set J-bars in the formwork to visually tie the footing to the foundation wall before placing the footing concrete.
Add J-bar components Rotate and copy the J-bar Position with lines and guidelines Hide the formwork Drag out a rectangle Use Off-set to outline the footing Push-pull the 2D shape into 3D Group and name the footing
E. CONCRETE WALL A 2D outline of the concrete foundation wall is drawn on the footing and extruded as a separate group with Push-pull.
 □ Locate the corners of the wall □ Drag a rectangle out on the footing □ Use Off-set tool to shape the wall □ Group and name the 2D wall profile □ Edit Group and Push-pull to 3D □ Infer the top of the excavation □ Add and array anchor bolts
F. MASONRY WALL Build the wall from the corners using string lines and batter boards to simulate the assembly process.
 □ Plumb bob locates the corners □ Add a concrete block component □ Rotate and copy into position □ Unhide the embedded dummy □ Select multiple blocks for copy □ Add anchor bolts for framing

Illustrate process with staging