

# LONG SPAN WOOD IBEAM

1: Rip 1/4" PLY to a width of 12" along the length of the ply  
(with the grain)

2: CUT ONE 8' SECTION IN HALF TO CREATE 2 - 4' SECTIONS

3: STAGGER 8' AND 4' SECTIONS AND GLUE 1 SURFACE OF EACH SECTION

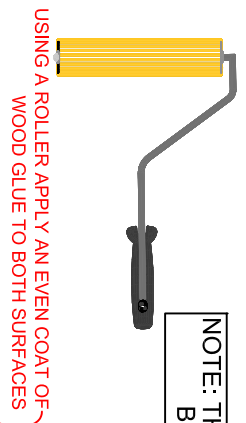
4: COMBINE SECTIONS TO CREATE A STRUCTURE 11 3/4" X 12"

CLAMP AND LET GLUE DRY

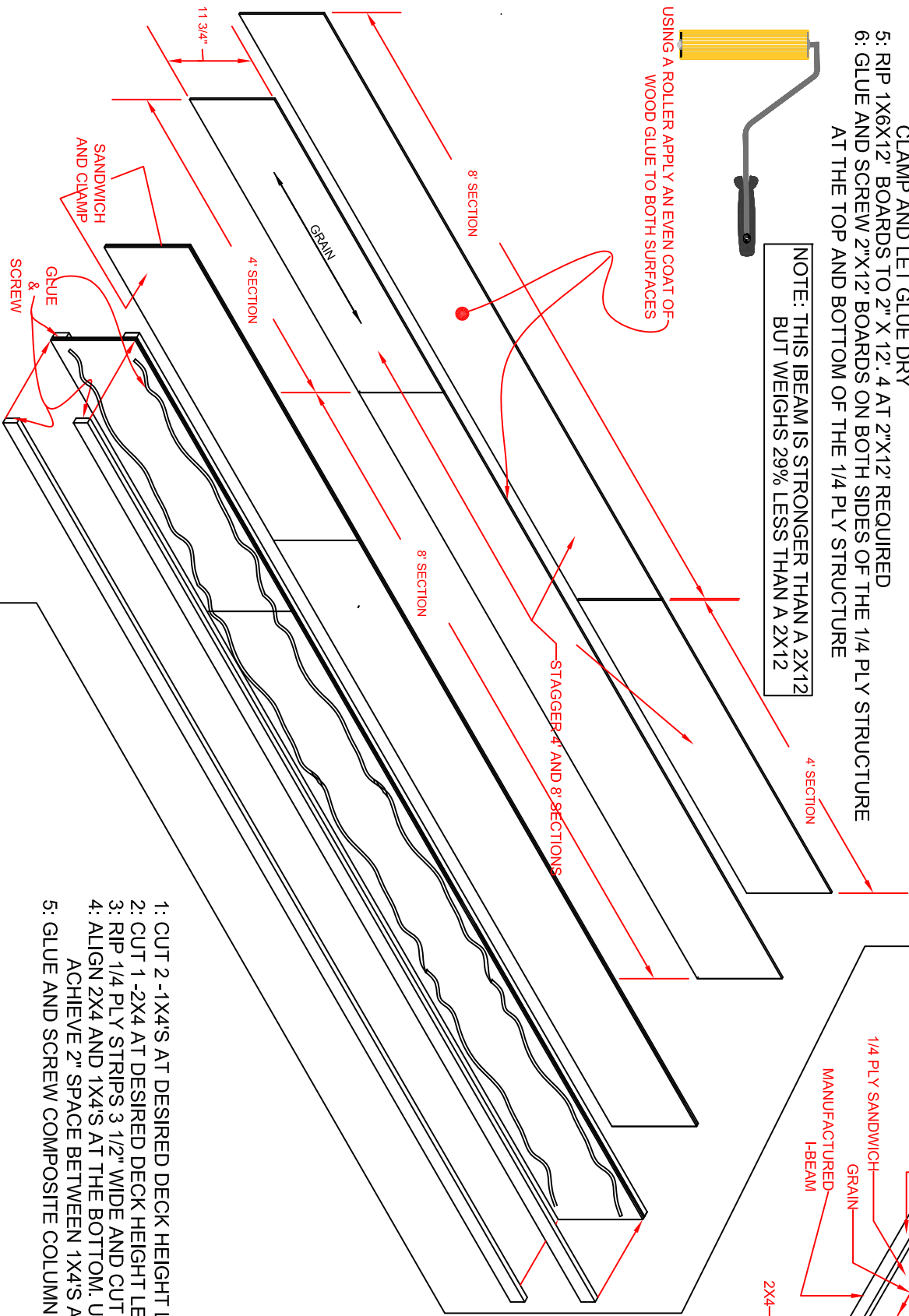
5: RIP 1X6X12' BOARDS TO 2" X 12'; 4 AT 2"X12' REQUIRED

6: GLUE AND SCREW 2"X12' BOARDS ON BOTH SIDES OF THE 1/4 PLY STRUCTURE AT THE TOP AND BOTTOM OF THE 1/4 PLY STRUCTURE

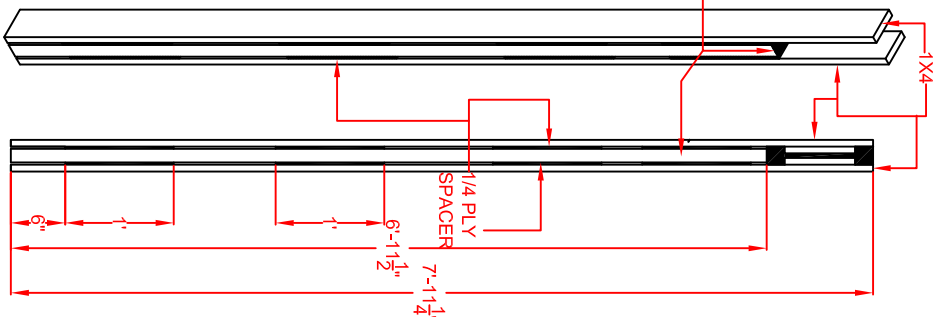
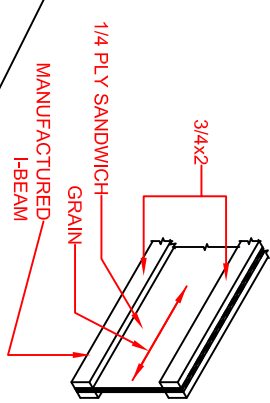
NOTE: THIS IBEAM IS STRONGER THAN A 2X12 BUT WEIGHS 29% LESS THAN A 2X12



USING A ROLLER APPLY AN EVEN COAT OF WOOD GLUE TO BOTH SURFACES



# HIGH STRENGTH COMPOSITE COMPRESSION COLUMN



GLUE AND SCREW ALL PIECES

- 1: CUT 2 - 1X4'S AT DESIRED DECK HEIGHT LESS 3/4"
- 2: CUT 1 - 2X4 AT DESIRED DECK HEIGHT LESS 12 1/2"
- 3: RIP 1/4 PLY STRIPS 3 1/2" WIDE AND CUT TO 1'-0" (8 REQUIRED)
- 4: ALIGN 2X4 AND 1X4'S AT THE BOTTOM. USE 1/4 PLY SPACERS TO ACHIEVE 2" SPACE BETWEEN 1X4'S AT THE TOP
- 5: GLUE AND SCREW COMPOSITE COLUMN