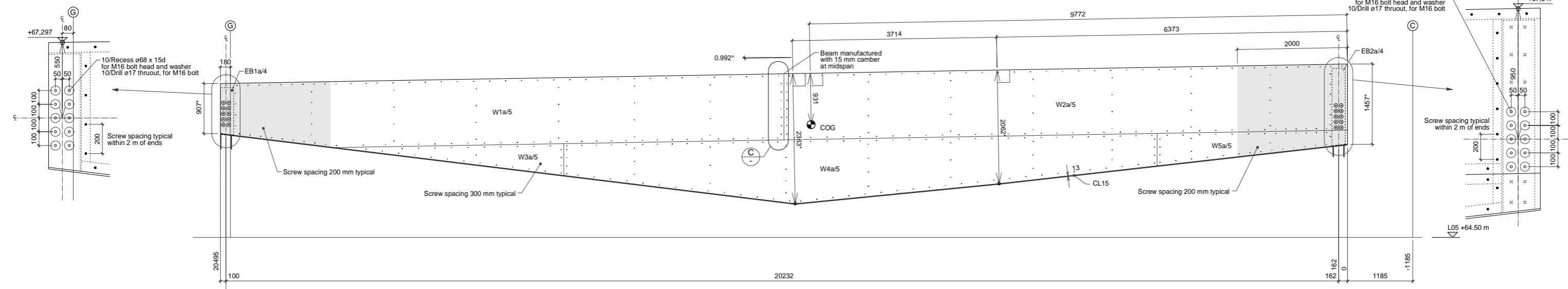


GRID LOCATION:
5/C-G

GENERAL NOTES FOR LVL BEAM PREFABRICATION - SEE WSD 1

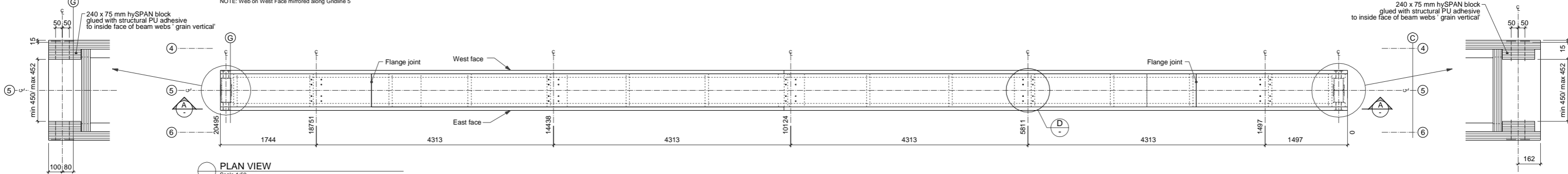
ITEM:	LABEL:	MATERIAL:	SECTION:	LENGTH
FLANGE	T & B	hySPAN	ex 600x75	1/15.0 m, 1/10.3 m, 1/9.9 m, 2/2.8 m
FLANGE SPLICE	TS BS	hySPAN	ex 600x75	1/2.3 m, 1/2.0 m 3/1.8 m
STIFFENER	S	hySPAN	ex 600x63	1/2.2 m, 2/2.1 m, 1/2.0 m, 2/1.9 m, 2/1.7 m, 3/1.5 m, 1/1.4 m, 1/1.2 m, 1/1.0 m, 1/0.8 m
WEB	W	hySPAN 4xb	ex 1200x63	2/10.8 m, 4/10.3 m, 2/4.2 m, 2/3.5 m
WEB SPLICE	WS	hySPAN 4xb	ex 150x63 (horz.) ex 200x63 (vert.)	2/6.8 m, 2/4.2 m, 2/4.1 m, 2/3.2 m 2/2.2 m, 4/1.7 m
END BLOCK	EB	hySPAN	ex 240x75	2/1.5 m, 2/0.9
BLOCK	P	hySPAN	ex 300x63	3/0.6 m
DECORATIVE COVER	CL15	ASH VENEERED MDF	2400 x 1200 sheets	13 mm thickness

hySPAN is laminated veneer lumber to AS/NZS 4357. 4xb has 4 cross band piles in the LVL construction.

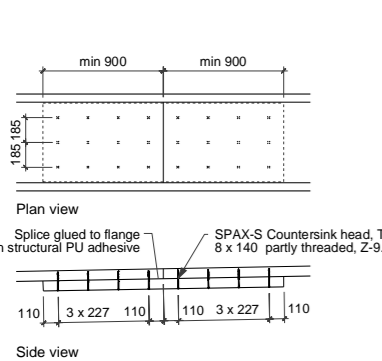


ELEVATION - Showing East Face
Scale 1:50
NOTE: Web on West Face mirrored along Gridline 5

* The thickness of the decorative cover to the bottom is NOT included in these dimensions.

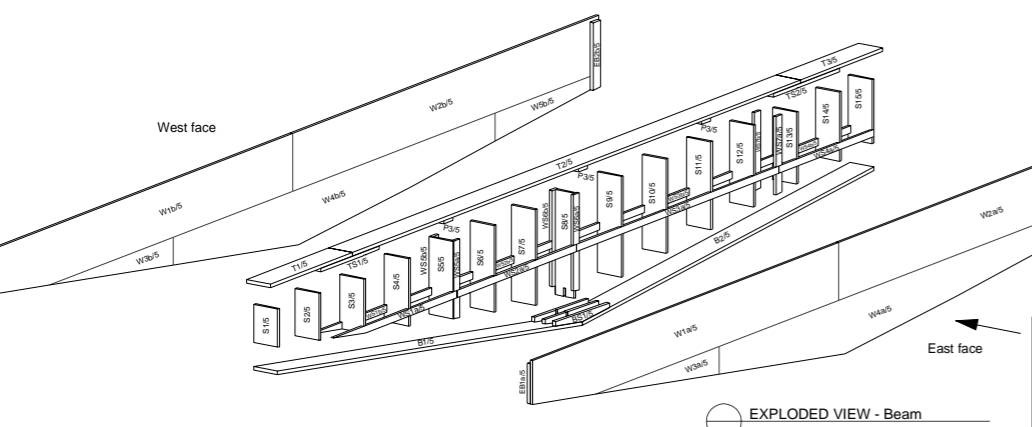


PLAN VIEW
Scale 1:50

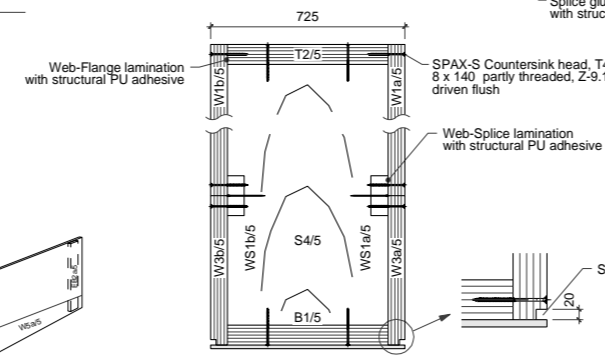


SECTION A-A - Showing framing and framing components for East face
Scale 1:75
NOTE: Framing components for West face mirrored along Gridline 5

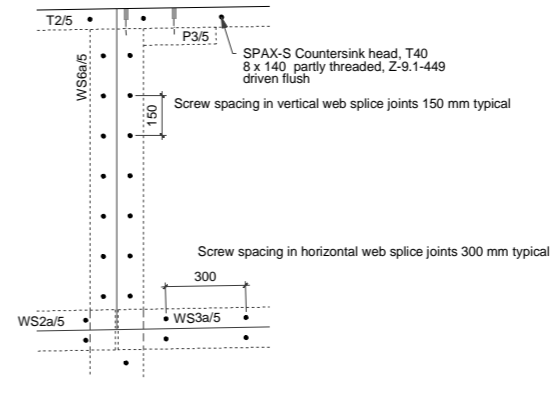
Flange joint typical
Scale 1:40



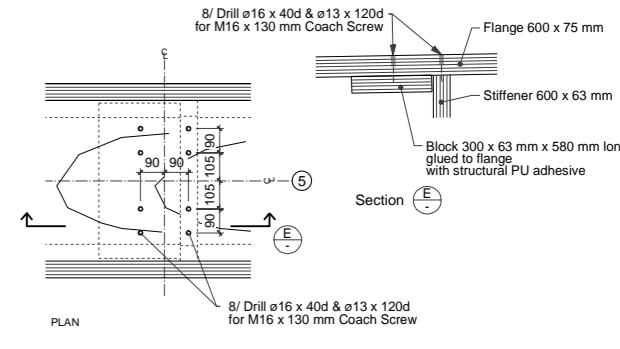
EXPLODED VIEW - Beam



Section B-B - Typical B5 cross section
Scale 1:20



Web splice detail
Scale 1:20



Support detail for steel roof structure
Scale 1:20



WSD 4

REV	DATE	DESCRIPTION
-	20.11.2013	ISSUED FOR APPROVAL
-	19.10.2013	ISSUED FOR APPROVAL

ROOF BEAM Mark: B5 no. off 1	
PROJECT: Faculty of Architecture, Building and Planning The University of Melbourne 757 Swanston Street, Parkville Campus, VIC 3010 FOR: Brookfield Multiplex Constructions Pty Ltd	Scale 1:50 A2 Job No. 13013 Issue Date 22 October 2013 Drawing No. 5061 Rev. CE B
WORKSHOP DRAWING	COPYRIGHT RESERVED

GRID LOCATION:
10/C-G

GENERAL NOTES FOR LVL BEAM PREFABRICATION

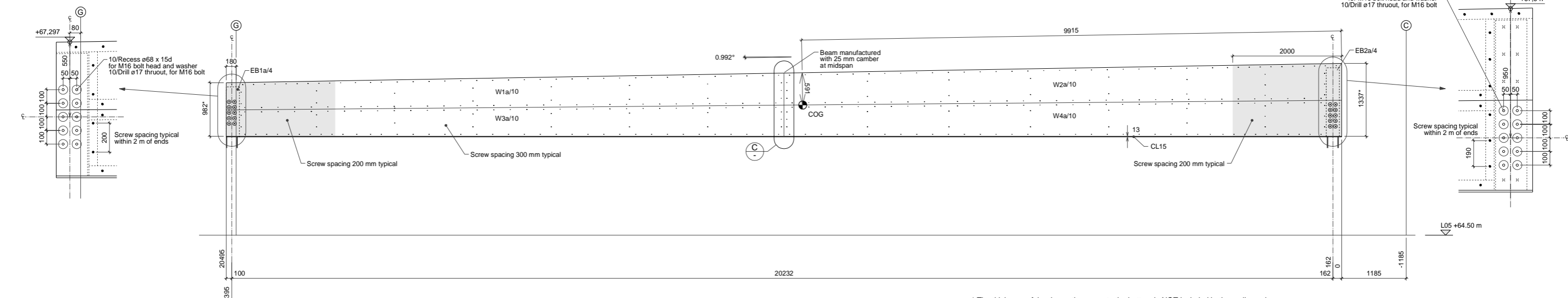
1. FLANGES & STIFFENERS TO BE MACHINED TO A UNIFORM COMMON WIDTH PRIOR TO ASSEMBLY
2. ALL WEB TO FLANGE JOINTS, SPLICE JOINTS, ATTACHMENT OF BLOCKS SHALL BE EFFECTED BY GLUING IN ACCORDANCE WITH THE 'GLUE BONDING SPECIFICATION' BELOW
3. SCREWS SHALL BE ALIGNED AND UNIFORMLY SPACED & DRIVEN FLUSH TO THE SURFACE. SCREWS NOT BE OVERDRIVEN MORE THAN 1 mm APPROXIMATELY
4. MARKS FOR IDENTIFICATION AND ORIENTATION OF THE BEAM SHALL BE APPLIED TO THE TOP AND END SURFACES
5. ALL VISIBLE SURFACES SHALL BE PREPARED FOR COATING BY REMOVAL OF RESIDUE GLUE OR STAINS, APPLICATION OF SUITABLE FILLING TO REPAIR DAMAGE AS NECESSARY & SANDING, TAKING CARE TO ENSURE THAT THE RESULTING APPEARANCE WILL MEET THE STANDARD IMPLIED AND SPECIFIED BY THE PROJECT DOCUMENTATION
6. A FIRST COAT OF INTERGRAIN 'ICED WHITE' NATURAL STAIN SHALL BE APPLIED TO ALL VISIBLE SURFACES & A SECOND COAT OF INTERGRAIN ULTRACLEAR INTERIOR SHALL BE APPLIED FOR THE PROTECTION OF THE EXTERNAL LVL SURFACE OF EACH BEAM

Glue bonding specification

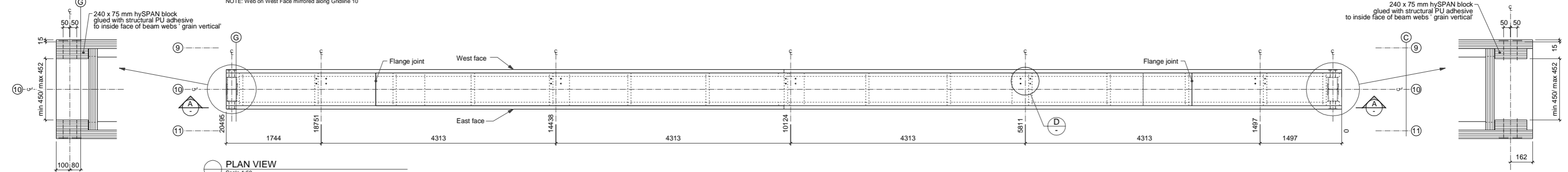
- Adhesive** Jowat 686.70 - liquid one-component polyurethane adhesive for load-bearing structural wood bonding.
- Application** Adhesive applied in beads at a spread rate of between 150 g/m² and 300 g/m² with target spread around 200 g/m². Glue spread rate shall be recorded for each gluing process.
- Pressure** Pressure, sufficient to achieve a glue-line thickness not greater than 0.3 mm in accordance with the adhesive specification shall be applied using Spax or similar 8 mm diameter partially threaded screws at a spacing in the grain direction not greater than 300 mm for a required bonding width across the grain of 75 mm. Screws shall be driven sufficiently to embed the head of the screw flush with the surface. Where necessary, additional clamping pressure shall be applied to ensure the required bonded surfaces are pulled into intimate contact and maintained by further tightening of screws.
- Assembly time** The elapsed time from the beginning of glue spreading until the final driving or tightening of screws shall not exceed 50 minutes. The component may not be moved or the glue line otherwise subjected to any stress or deformation after 60 minutes and until the expiration of the cure period.
- Cure time** Minimum 8 hours during which time the glue line shall not be subjected to stress resulting from lifting or loading etc

ITEM:	LABEL:	MATERIAL:	SECTION:	LENGTH
FLANGE	T & B	hySPAN	ex 600x75	2/15.0 m, 2/2.8 m, 2/2.5 m
FLANGE SPLICE	FS	hySPAN	ex 600x75	1/2.2 m, 1/2.0 m, 2/1.8 m
STIFFENER	S	hySPAN	ex 600x63	3/1.2 m, 4/1.1 m, 5/1.0 m, 2/0.9 m, 1/0.8 m
WEB	W	hySPAN 4xb	ex 1200x63	4/10.3 m, 4/10.2 m
WEB SPLICE	WS	hySPAN 4xb	ex 150x63 (horz.) ex 200x63 (vert.)	4/10.0 m 2/1.0 m
END BLOCK	EB	hySPAN	ex 240x75	2/1.3 m, 2/0.9
BLOCK	P	hySPAN	ex 300x63	3/0.6 m
DECORATIVE COVER	CL15	ASH VENEERED MDF	2400 x 1200 sheets	13 mm thickness

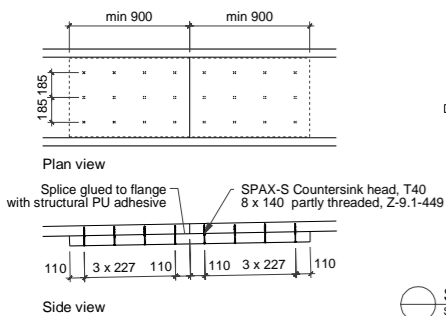
hySPAN is laminated veneer lumber to AS/NZS 4357. 4xb has 4 cross band plies in the LVL construction.



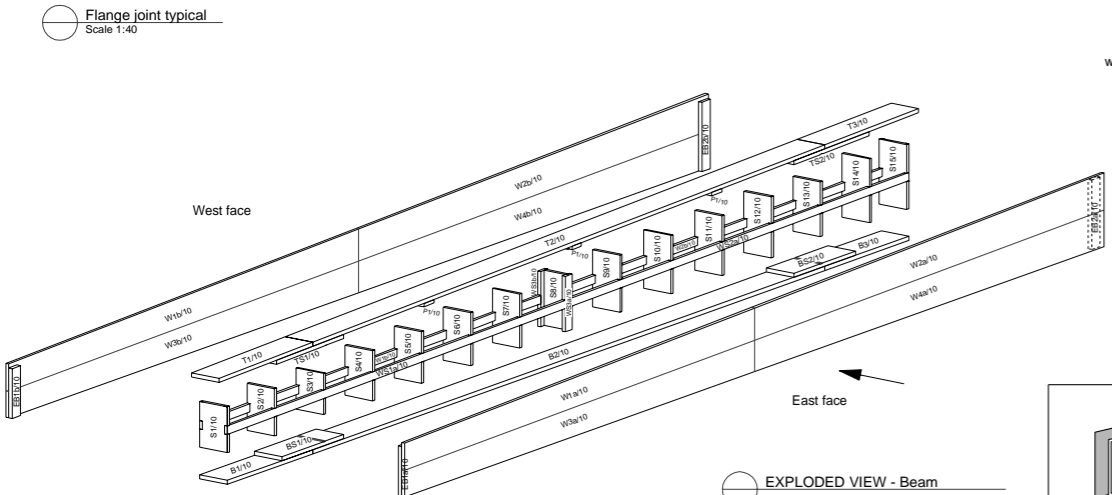
ELEVATION - Showing East Face
Scale 1:50
NOTE: Web on West Face mirrored along Gridline 10



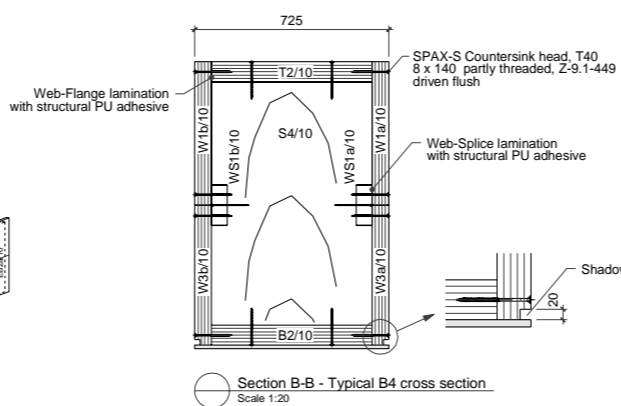
PLAN VIEW
Scale 1:50



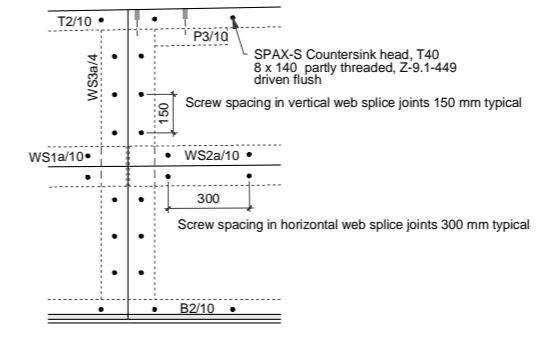
SECTION A-A - Showing framing and framing components for East face
Scale 1:50
NOTE: Framing components for West face mirrored along Gridline 10



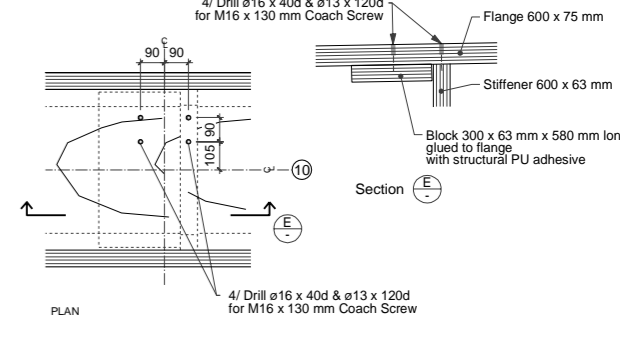
EXPLODED VIEW - Beam



Section B-B - Typical B4 cross section
Scale 1:20



Web splice detail
Scale 1:20



Support detail for steel roof structure
Scale 1:20



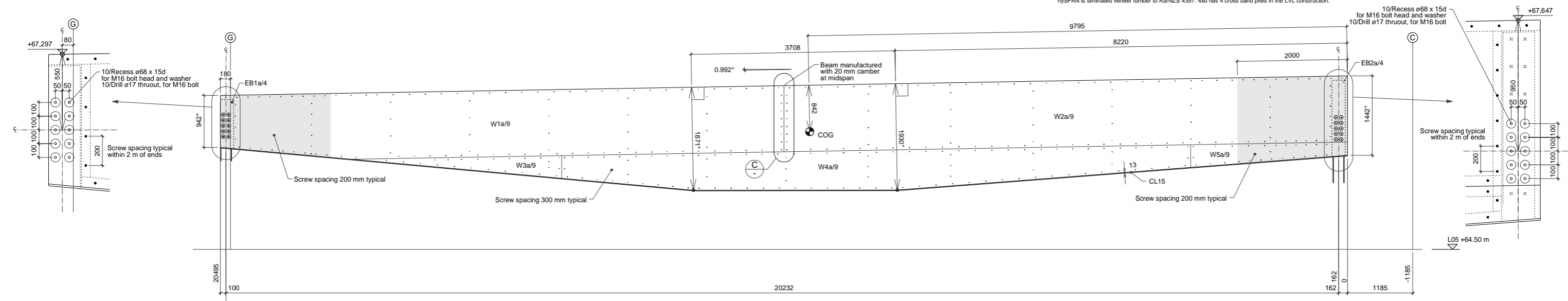
WSD 1

REV	DATE	DESCRIPTION
-	20.11.2013	ISSUED FOR APPROVAL
-	19.10.2013	ISSUED FOR APPROVAL

ROOF BEAM Mark: B10 no. off 1	
PROJECT: Faculty of Architecture, Building and Planning The University of Melbourne 757 Swanston Street, Parkville Campus, VIC 3010 FOR: Brookfield Multiplex Constructions Pty Ltd	Scale 1:50 A2 Job No. 13013 Issue Date 22 October 2013 Drawing No. 5064 Rev. B
WORKSHOP DRAWING	COPYRIGHT RESERVED

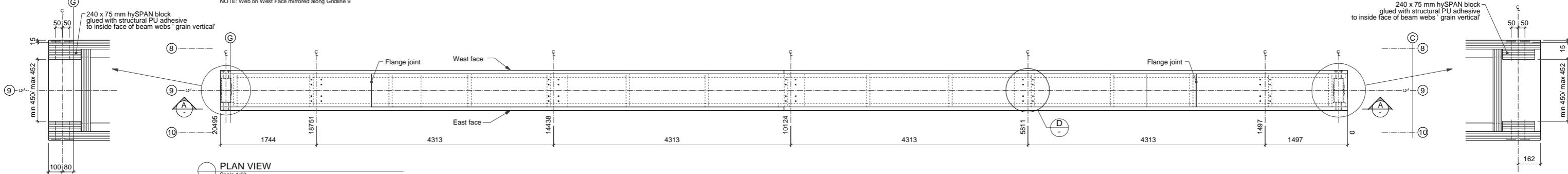
ITEM:	LABEL:	MATERIAL:	SECTION:	LENGTH
FLANGE	T & B	hySPAN	ex 600x75	1/15.0 m, 1/8.4 m, 1/8.0 m, 1/3.8 m, 2/2.8 m
FLANGE SPLICE	TS BS	hySPAN	ex 600x75 ex 150x75	1/2.3 m, 1/2.0 m, 6/1.8 m
STIFFENER	S	hySPAN	ex 600x63	4/1.8 m, 1/1.7 m, 2/1.6 m, 1/1.5 m, 3/1.4 m, 1/1.3 m, 1/1.1 m, 1/1.0, 1/0.9 m
WEB	W	hySPAN 4xb	ex 1200x63	2/11.5 m, 4/10.3 m, 2/3.9 m, 2/2.9 m
WEB SPLICE	WS	hySPAN 4xb	ex 150x63 (horz.) ex 200x63 (vert.)	2/7.4 m, 2/4.1 m, 2/3.9 m, 2/2.6 m 2/1.8 m, 4/1.5 m
END BLOCK	EB	hySPAN	ex 240x75	2/1.4 m, 2/0.9
BLOCK	P	hySPAN	ex 300x63	3/0.6 m
DECORATIVE COVER	CL15	ASH VENEERED MDF	2400 x 1200 sheets	13 mm thickness

hySPAN is laminated veneer lumber to AS/NZS 4357. 4xb has 4 cross band plies in the LVL construction.

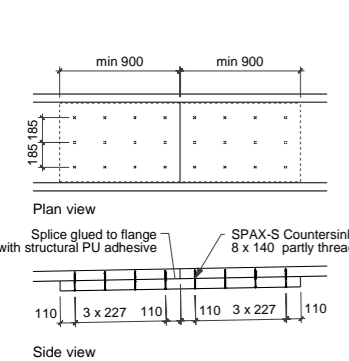


ELEVATION - Showing East Face
Scale 1:50
NOTE: Web on West Face mirrored along Gridline 9

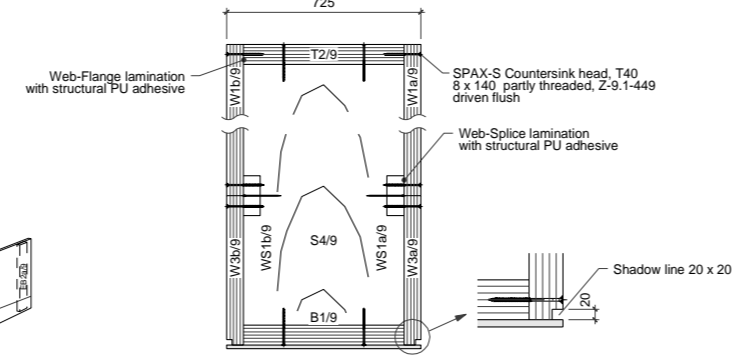
* The thickness of the decorative cover to the bottom is NOT included in these dimensions.



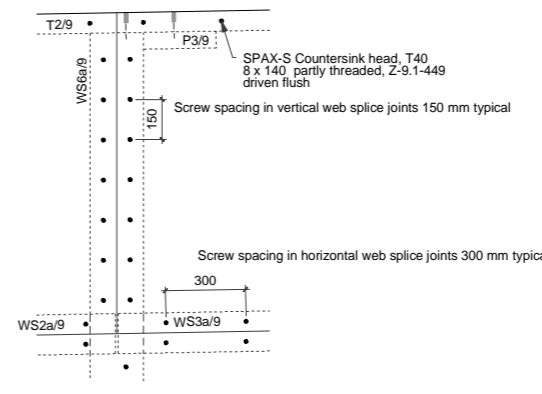
PLAN VIEW
Scale 1:50



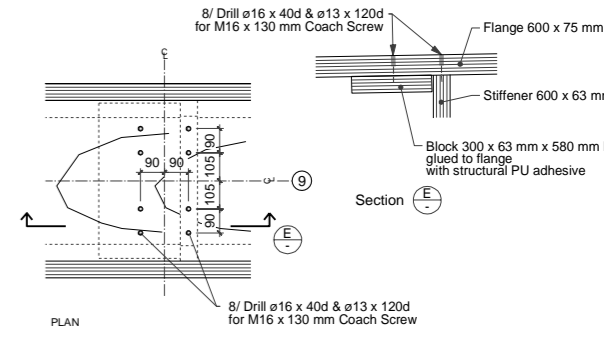
SECTION A-A - Showing framing and framing components for East face
Scale 1:50
NOTE: Framing components for West face mirrored along Gridline 9



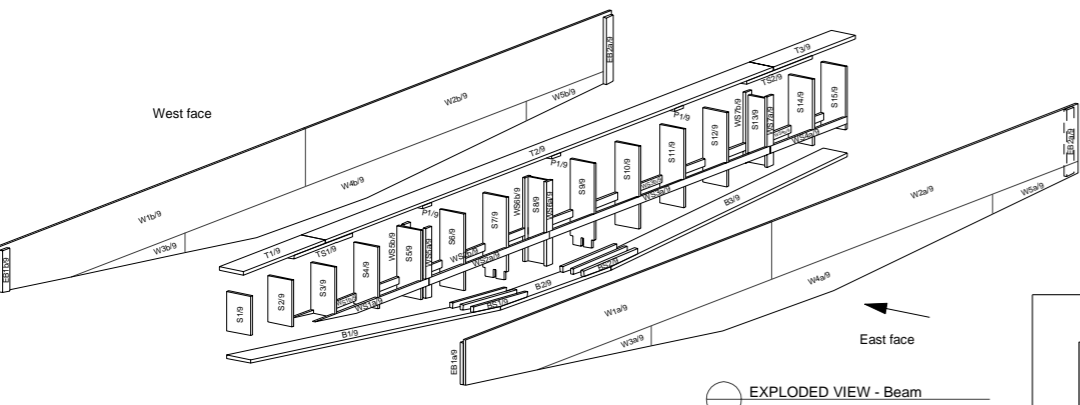
Section B-B - Typical B9 cross section
Scale 1:20



Web splice detail
Scale 1:20



Support detail for steel roof structure
Scale 1:20



EXPLODED VIEW - Beam



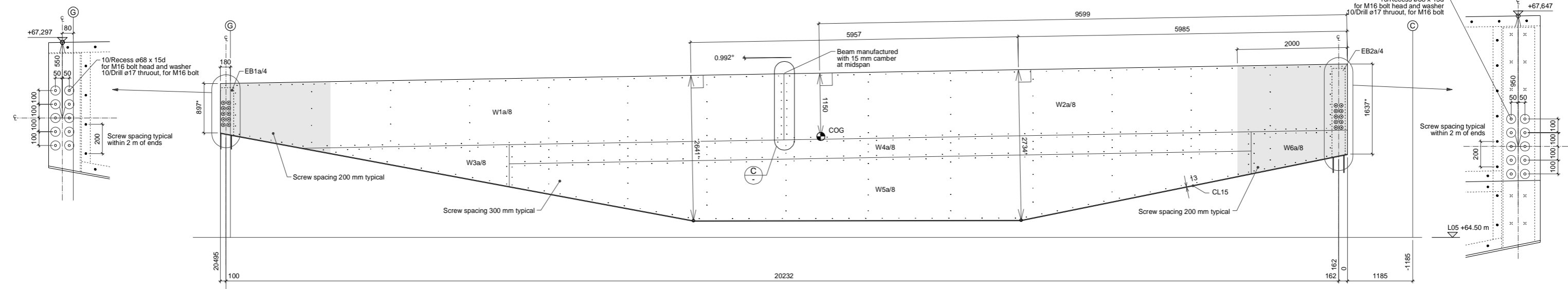
WSD 2

REV	DATE	DESCRIPTION
-	20.11.2013	ISSUED FOR APPROVAL
-	19.10.2013	ISSUED FOR APPROVAL

ROOF BEAM Mark: B9 no. off 1	
PROJECT: Faculty of Architecture, Building and Planning The University of Melbourne 757 Swanston Street, Parkville Campus, VIC 3010 FOR: Brookfield Multiplex Constructions Pty Ltd	Scale 1:50 A2 Job No. 13013 Issue Date 22 October 2013 Drawing No. 5063 Rev. CE B
WORKSHOP DRAWING	COPYRIGHT RESERVED

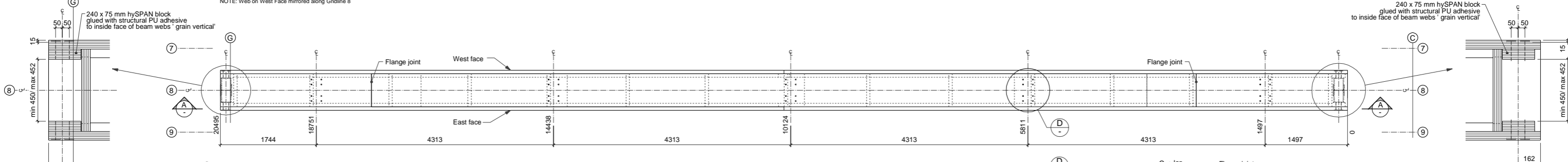
ITEM:	LABEL:	MATERIAL:	SECTION:	LENGTH
FLANGE	T & B	hySPAN	ex 600x75	1/15.0 m, 1/8.6 m, 1/6.0 m, 1/5.8 m, 2/2.8 m
FLANGE SPLICE	TS BS	hySPAN	ex 600x75 ex 200x75	1/2.3 m, 1/2.0 m 6/1.8 m
STIFFENER	S	hySPAN	ex 600x63	4/2.6 m, 1/2.5 m, 2/2.3 m, 2/2.0 m, 1/1.8 m, 1/1.7 m, 1/1.6 m, 1/1.4 m, 1/1.1 m, 1/0.9 m
WEB	W	hySPAN 4xb	ex 1200x63	4/13.5 m, 4/10.3 m, 2/3.8 m, 2/1.8 m
WEB SPLICE	WS	hySPAN 4xb	ex 150x63 (horz.) ex 200x63 (vert.)	2/8.5 m, 2/8.4 m, 2/5.0 m, 2/4.9 m, 2/1.8 m 2/2.6 m, 4/1.9 m, 2/1.5 m
END BLOCK	EB	hySPAN	ex 240x75	2/1.7 m, 2/0.9
BLOCK	P	hySPAN	ex 300x63	3/0.6 m
DECORATIVE COVER	CL15	ASH VENEERED MDF	2400 x 1200 sheets	13 mm thickness

hySPAN is laminated veneer lumber to AS/NZS 4357. 4xb has 4 cross band plies in the LVL construction.

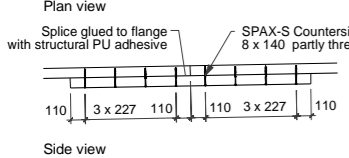
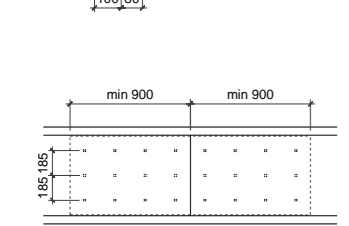


ELEVATION - Showing East Face
Scale 1:50
NOTE: Web on West Face mirrored along Gridline 8

* The thickness of the decorative cover to the bottom is NOT included in these dimensions.

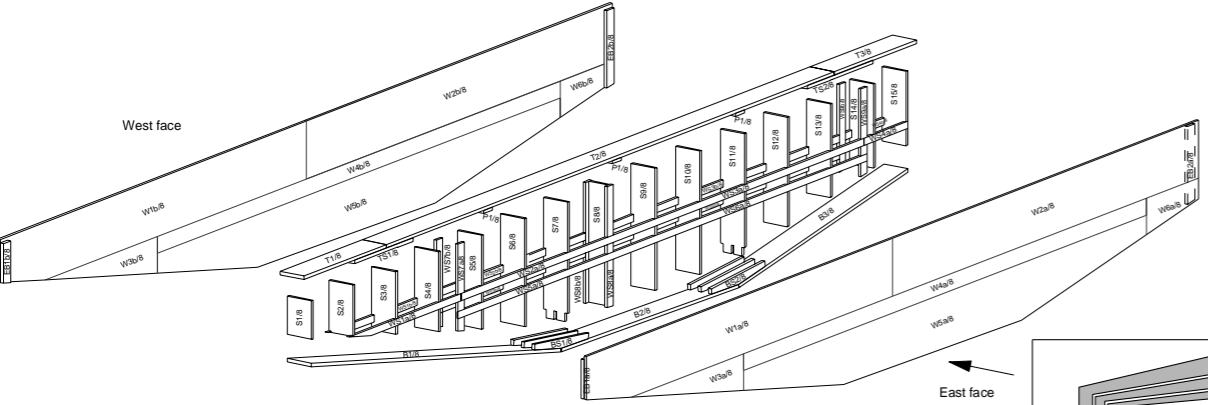


PLAN VIEW
Scale 1:50

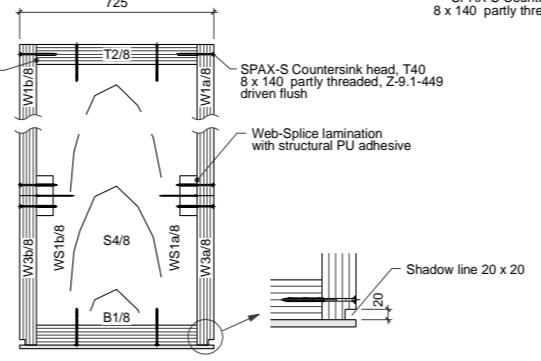


SECTION A-A - Showing framing and framing components for East face
Scale 1:50
NOTE: Framing components for West face mirrored along Gridline 8

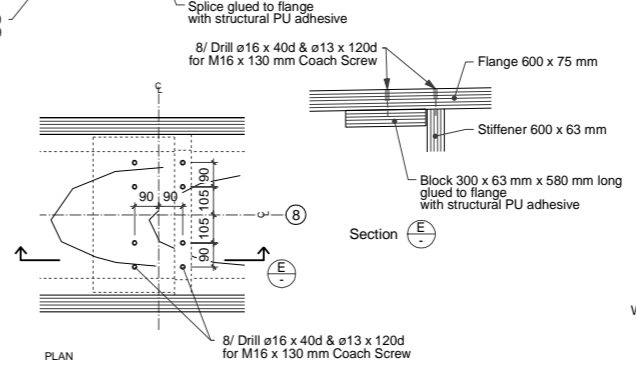
Flange joint typical
Scale 1:40



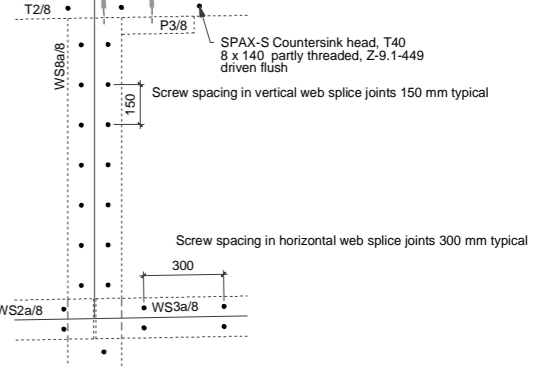
EXPLODED VIEW - Beam



Section B-B - Typical B5 cross section
Scale 1:20



Support detail for steel roof structure
Scale 1:20



Web splice detail
Scale 1:20



WSD 3

REV	DATE	DESCRIPTION
-	20.11.2013	ISSUED FOR APPROVAL
-	19.10.2013	ISSUED FOR APPROVAL

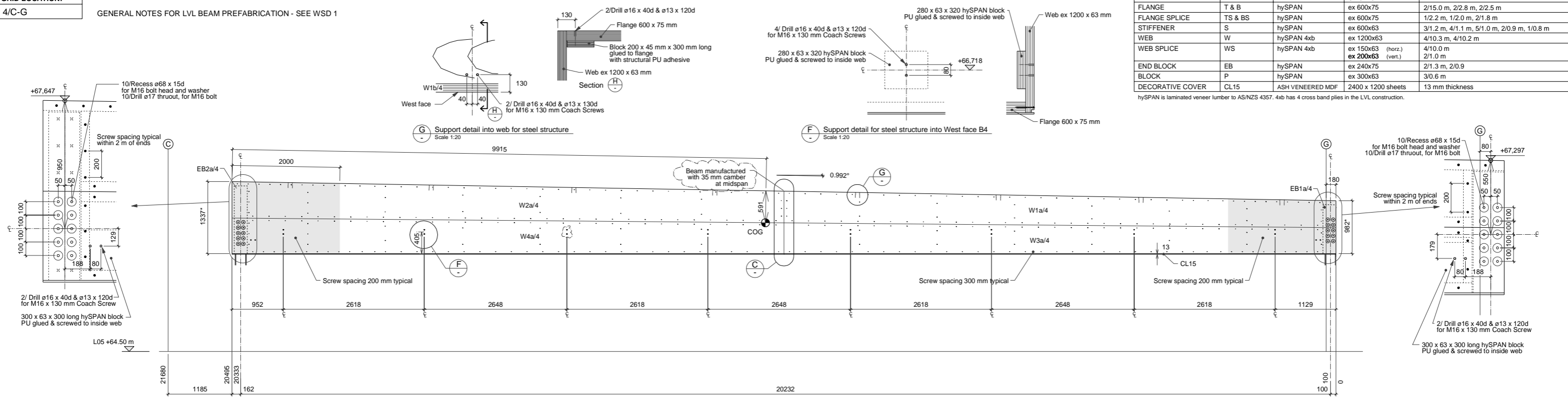
ROOF BEAM		Mark: B8	no. off 1
PROJECT:	Faculty of Architecture, Building and Planning	The University of Melbourne	757 Swanston Street, Parkville Campus, VIC 3010
FOR:	Brookfield Multiplex Constructions Pty Ltd		
Scale:	1:50	A2	Job No. 13013
Issue Date:	22 October 2013		Drawn CE
Drawing No.	5062		Rev. B
WORKSHOP DRAWING			COPYRIGHT RESERVED

GRID LOCATION:
4/C-G

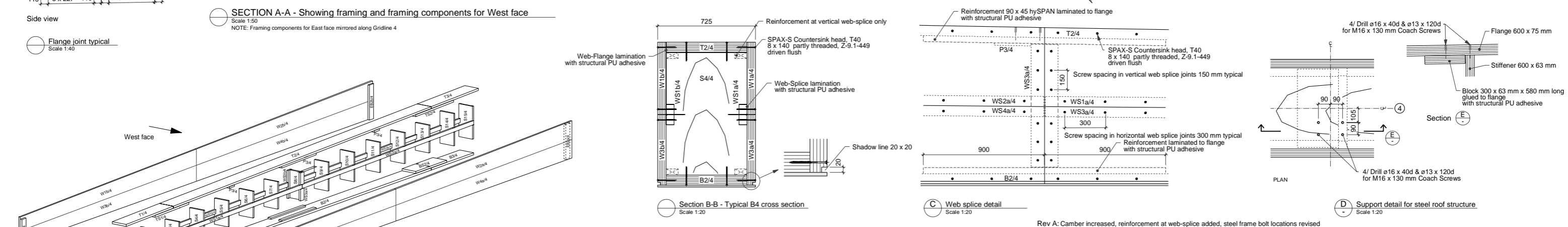
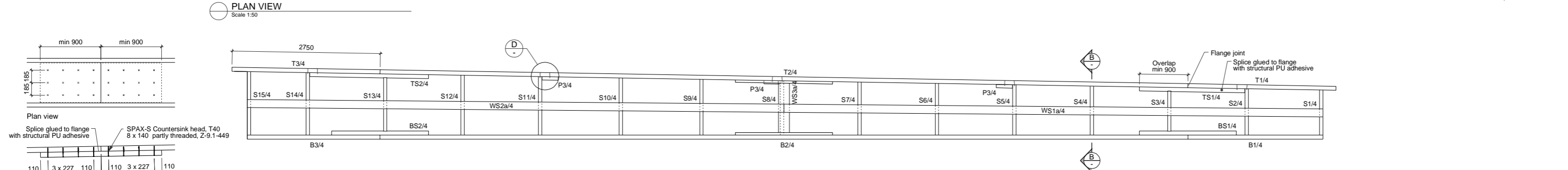
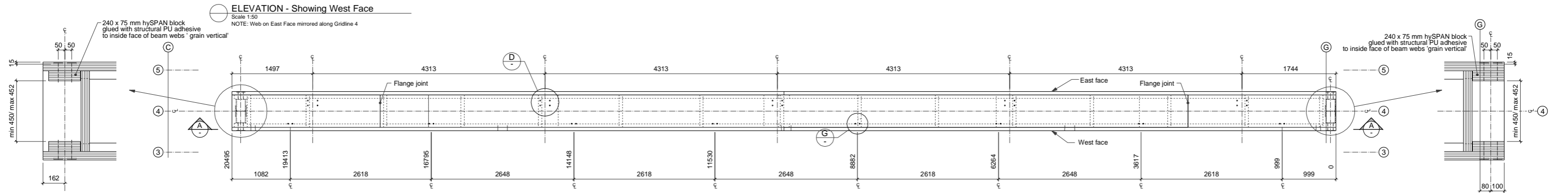
GENERAL NOTES FOR LVL BEAM PREFABRICATION - SEE WSD 1

ITEM:	LABEL:	MATERIAL:	SECTION:	LENGTH
FLANGE	T & B	hySPAN	ex 600x75	2/15.0 m, 2/2.8 m, 2/2.5 m
FLANGE SPLICE	TS & BS	hySPAN	ex 600x75	1/2.2 m, 1/2.0 m, 2/1.8 m
STIFFENER	S	hySPAN	ex 600x63	3/1.2 m, 4/1.1 m, 5/1.0 m, 2/0.9 m, 1/0.8 m
WEB	W	hySPAN 4xb	ex 1200x63	4/10.3 m, 4/10.2 m
WEB SPLICE	WS	hySPAN 4xb	ex 150x63 (horz.) ex 200x63 (vert.)	4/10.0 m 2/1.0 m
END BLOCK	EB	hySPAN	ex 240x75	2/1.3 m, 2/0.9
BLOCK	P	hySPAN	ex 300x63	3/0.6 m
DECORATIVE COVER	CL15	ASH VENEERED MDF	2400 x 1200 sheets	13 mm thickness

hySPAN is laminated veneer lumber to AS/NZS 4357. 4xb has 4 cross band plies in the LVL construction.



* The thickness of the decorative cover to the bottom is NOT included in these dimensions.



WSD 5

Rev A: Camber increased, reinforcement at web-splice added, steel frame bolt locations revised		ROOF BEAM Mark: B4 no. off 1	
PROJECT: Faculty of Architecture, Building and Planning The University of Melbourne 757 Swanston Street, Parkville Campus, VIC 3010 FOR: Brookfield Multiplex Constructions Pty Ltd		Scale: 1:50 A2	Job No. 13013
REV	DATE	DESCRIPTION	Drawn CE
B	20.11.2013	ISSUED FOR APPROVAL	Issue Date 22 October 2013
A	13.11.2013	ISSUED FOR APPROVAL	Drawing No. 5060
-	19.10.2013	ISSUED FOR APPROVAL	Rev. B
		WORKSHOP DRAWING	COPYRIGHT RESERVED