



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

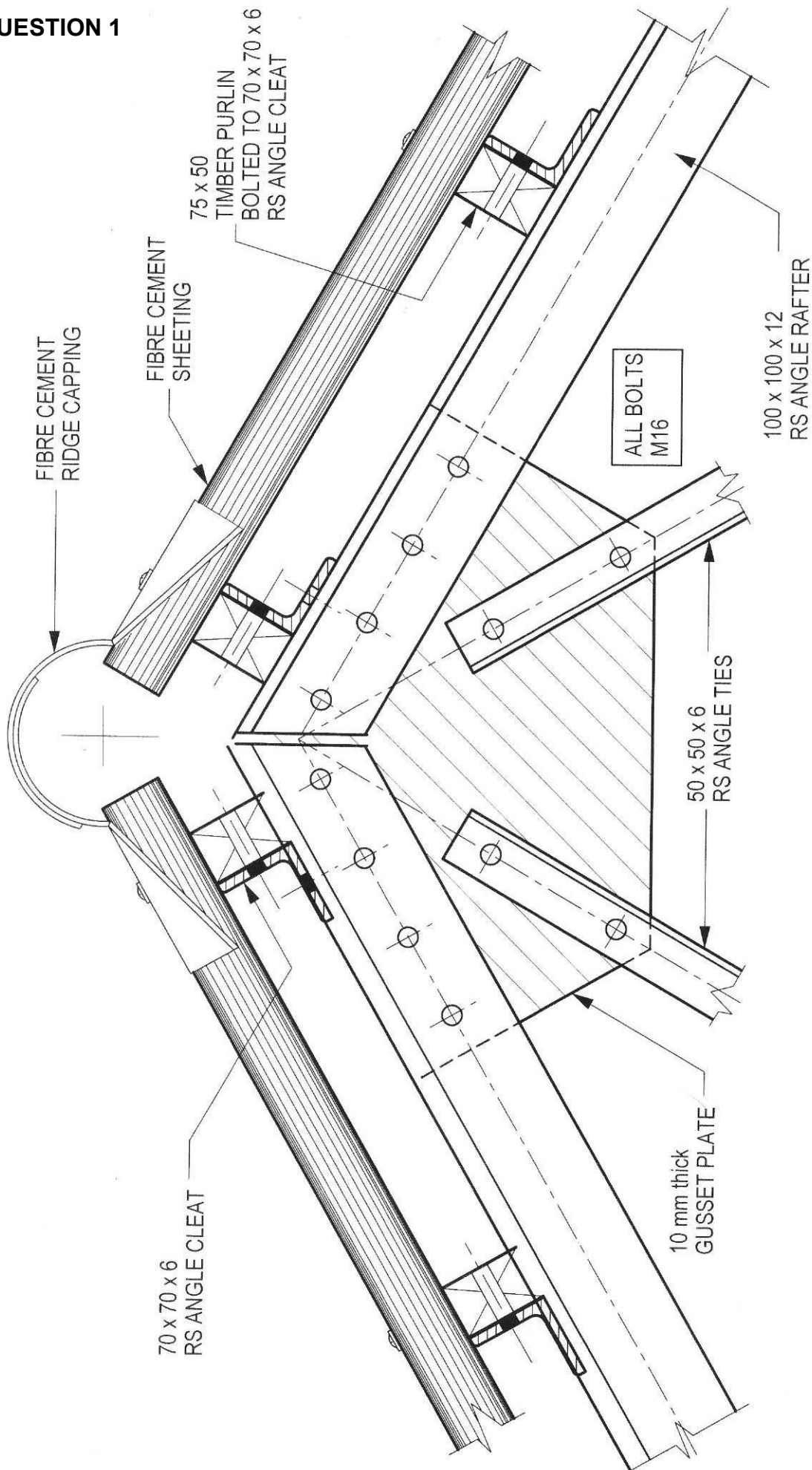
MARKING GUIDELINE

NATIONAL CERTIFICATE

BUILDING AND STRUCTURAL CONSTRUCTION N4

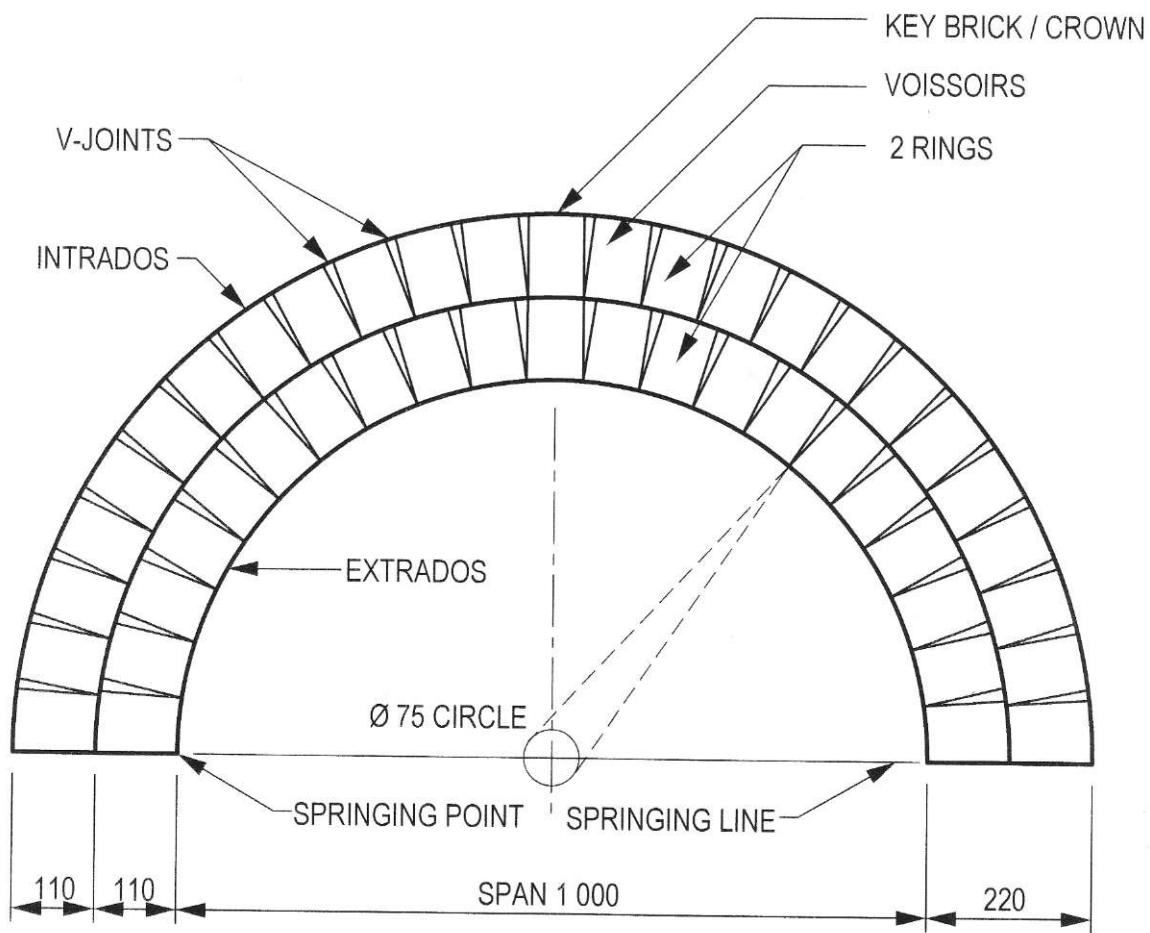
7 AUGUST 2019

This marking guideline consists of 9 pages.

QUESTION 1

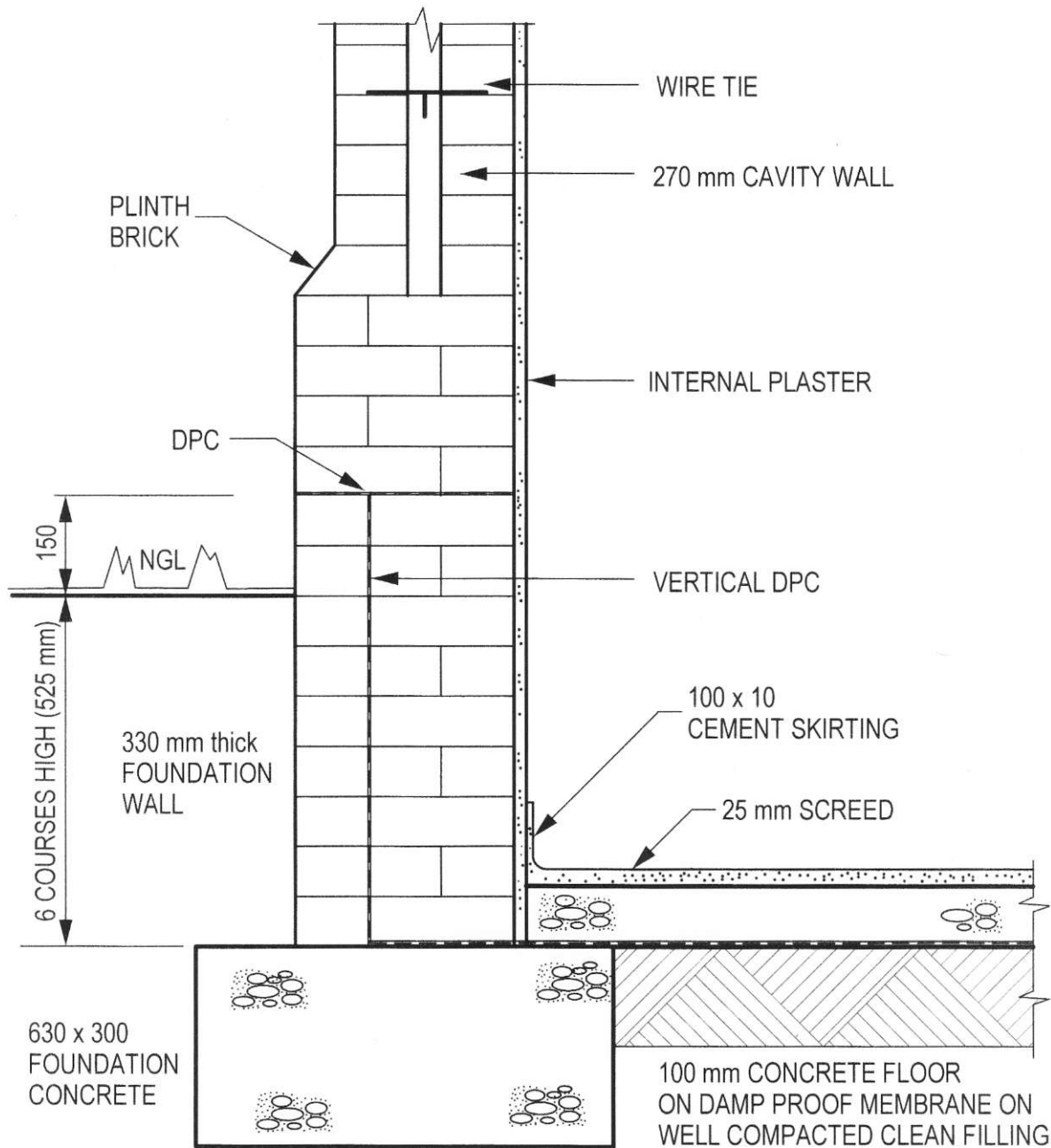
DETAIL AT THE RIDGE OF A STEEL ROOF TRUSS
SCALE 1:5

[20]

QUESTION 2

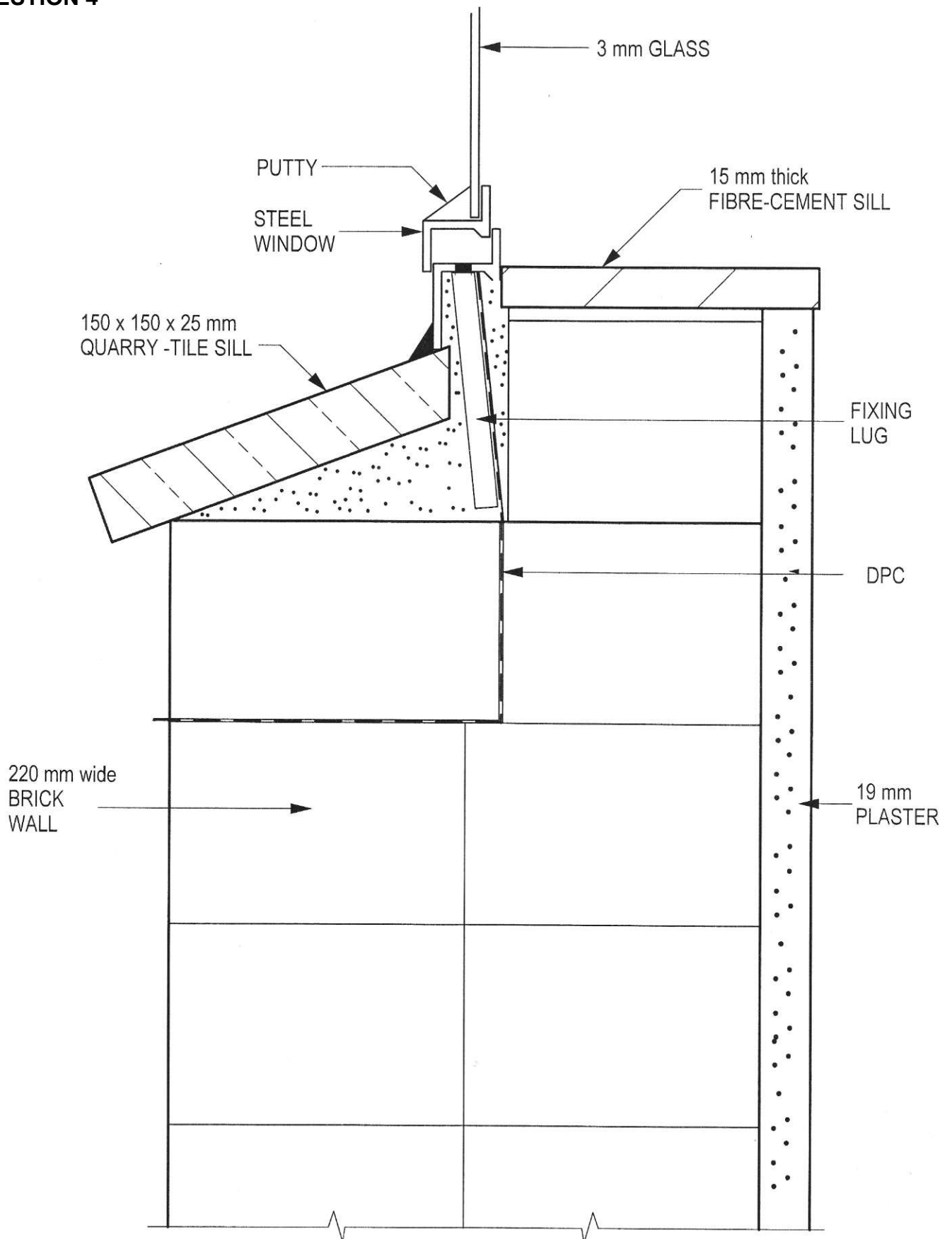
SEMI-CIRCULAR ROUGH BRICK ARCH
SCALE 1:10

[11]

QUESTION 3

VERTICAL SECTION THROUGH AN EXTERNAL BASEMENT WALL
SCALE 1:10

[16]

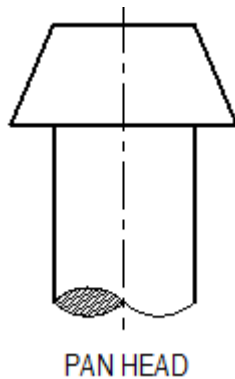
QUESTION 4

VERTICAL SECTION THROUGH STEEL CASEMENT WINDOW
SCALE 1:2

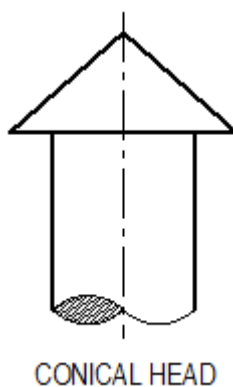
[15]

QUESTION 5

5.1 5.1.1



5.1.2



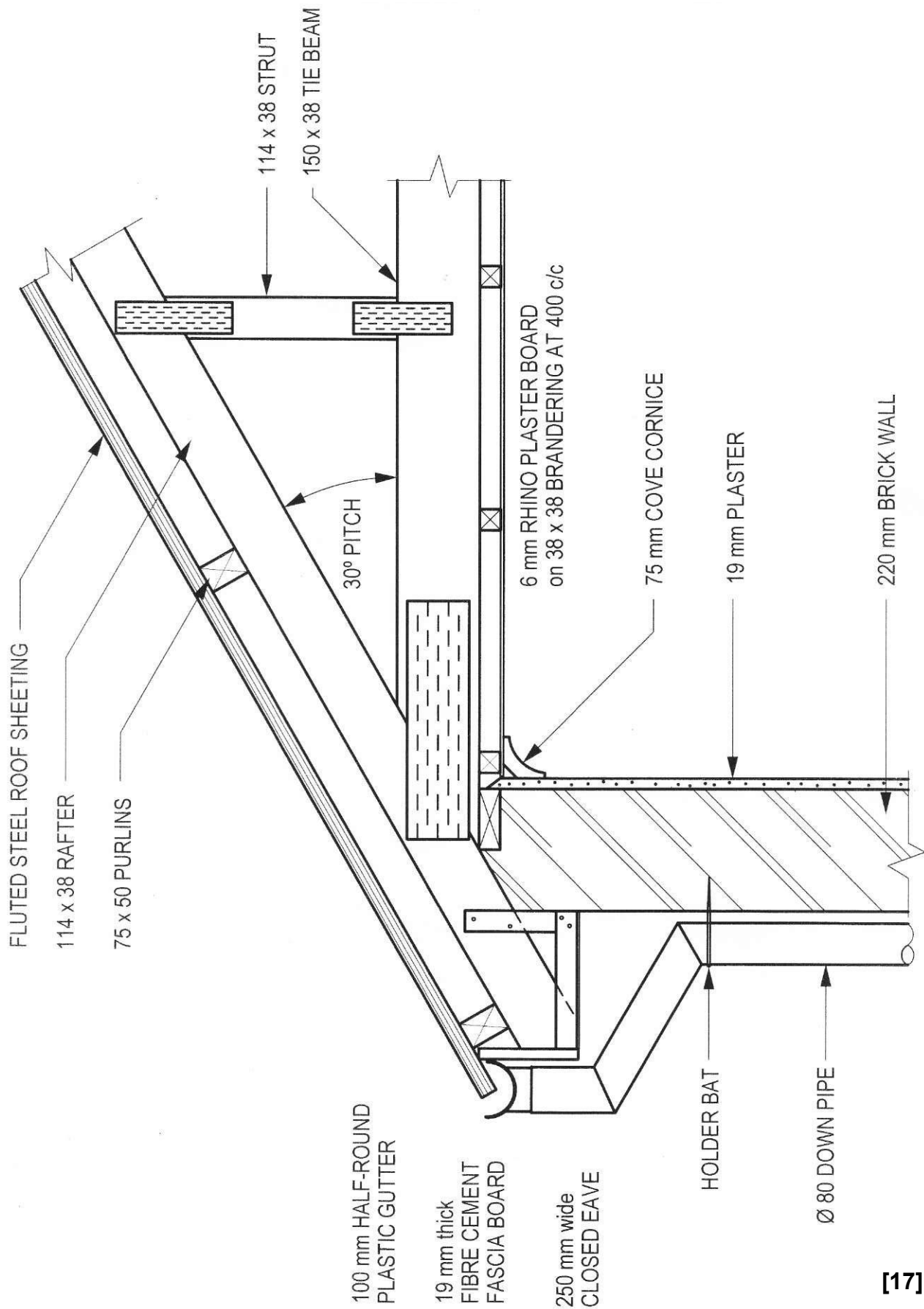
Mark Allocation	
Rivet corr.	2
Label	1
Total	3
3 x 2 = 6 Marks	

(2 × 3) (6)

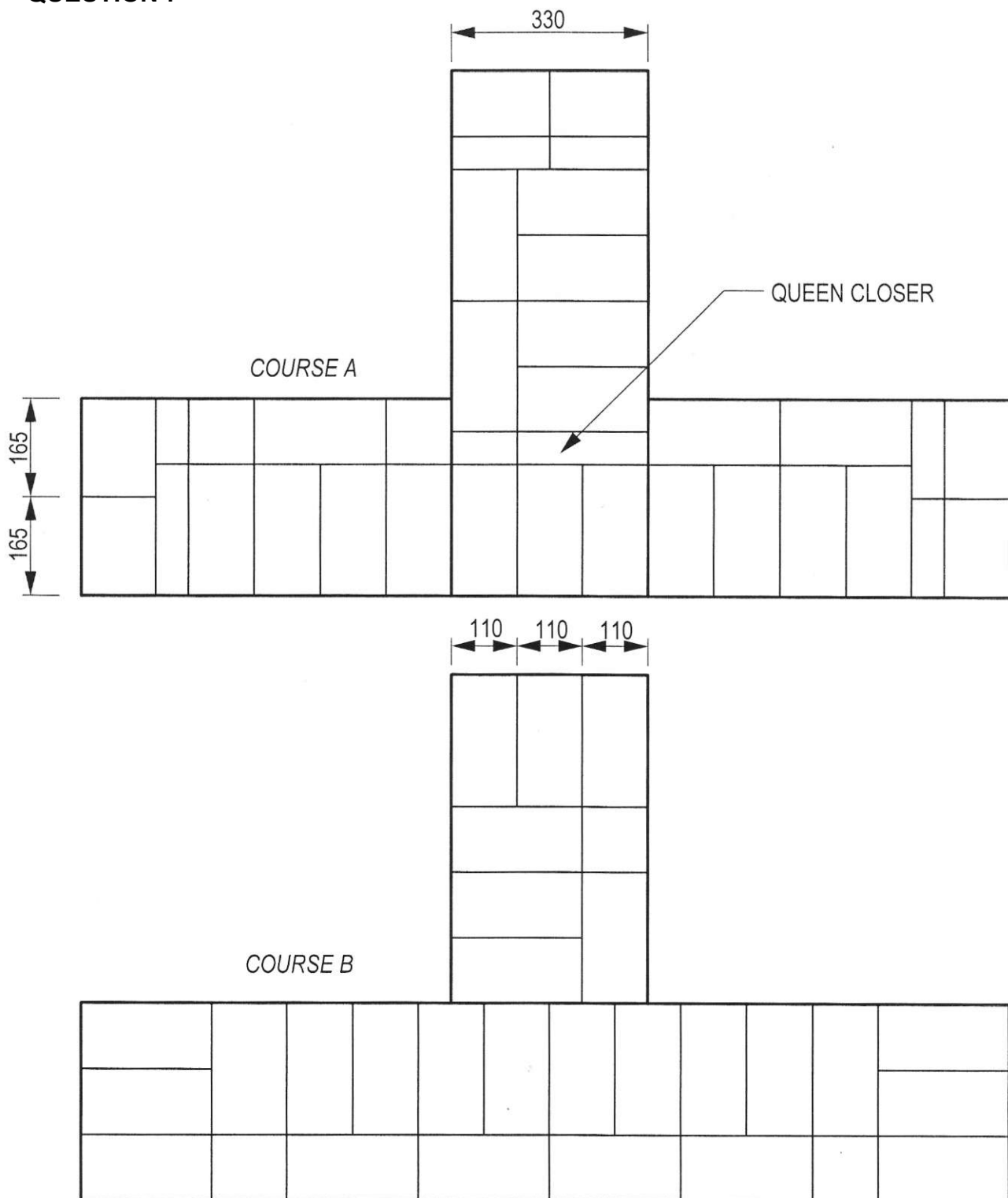
5.2 A concealed gutter is built or situated behind the fascia board of a roof and thus cannot be seen from the front. A parapet gutter is situated behind a parapet wall at the bottom of a flat or sloping roof. (2 + 2) (4)

5.3 Wall plates are used to form a level surface for the roof structure. It also acts as a means to nail the trusses down. (1)
[11]

QUESTION 6



[17]

QUESTION 7

ALTERNATE PLAN VIEWS OF A T-JUNCTION BUILT IN ENGLISH BOND
SCALE 1:10

[10]

MARK SHEET
ALTERNATE CORRECT ANSWERS WILL BE CONSIDERED

QUESTION 1			
MARK ALLOCATION			
Correctness:			
Set-out lines corr.	1	Accuracy	3
2 Rafters	2	Centre lines	1
2 Struts	2	Labels	2
Gusset Plate corr.	1		
Steel cleats	2	TOTAL	
Purlins	2	14 + 6	
Roof covering	2	= 20 Marks	
Rivet lay-out corr.	2		

QUESTION 2		
MARK ALLOCATION		
Correctness:		6
Span corr.	1	
2 Rings	2	
Bricks corr.	2	
V-joints	1	
Accuracy		3
Labels		1
Dimensions		1
Total		11

QUESTION 3		
MARK ALLOCATION		
Correctness:		10
Conc Fndt	1	
Heights corr.	2	
Walls corr.	2	
Conc Floor	2	
DPC	2	
Ground Level	1	
Accuracy		3
Dimensions		1
Labels		2
Total		16

QUESTION 4		
MARK ALLOCATION		
Correctness:		10
Brick wall width corr.	1	
Window sections corr.	3	
Glass & putty	2	
Window sills	2	
Fixing lug	1	
DPC	1	
Accuracy		2
Plaster		1
Labels		2
Total		15

QUESTION 6			
MARK ALLOCATION			
Correctness:		Accuracy	3
Wall corr.	1	Finishes	1
Roof construct.	2	Labels	2
Roof covering	2		
Closed eave	1	TOTAL	
Ceiling construct	2	11 + 6	
Rainwater goods	2	= 17 Marks	
Nail plates	1		

QUESTION 7	
MARK ALLOCATION	
Wall width corr	2
Corr bonding	3
Stopped ends	3
Labels	1
Dimensions	1
Total	10

TOTAL: 100