



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

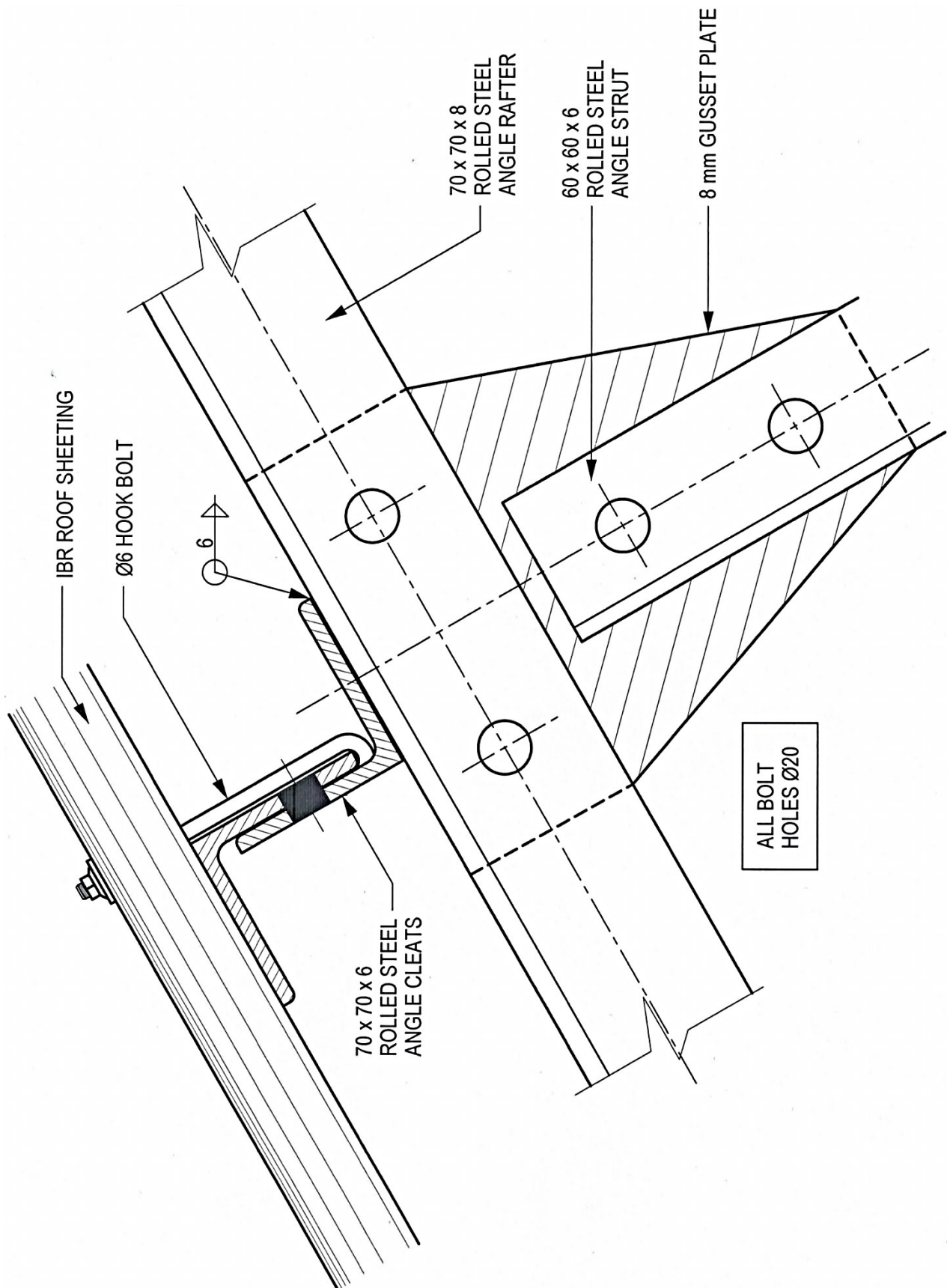
NATIONAL CERTIFICATE

BUILDING AND STRUCTURAL CONSTRUCTION N4

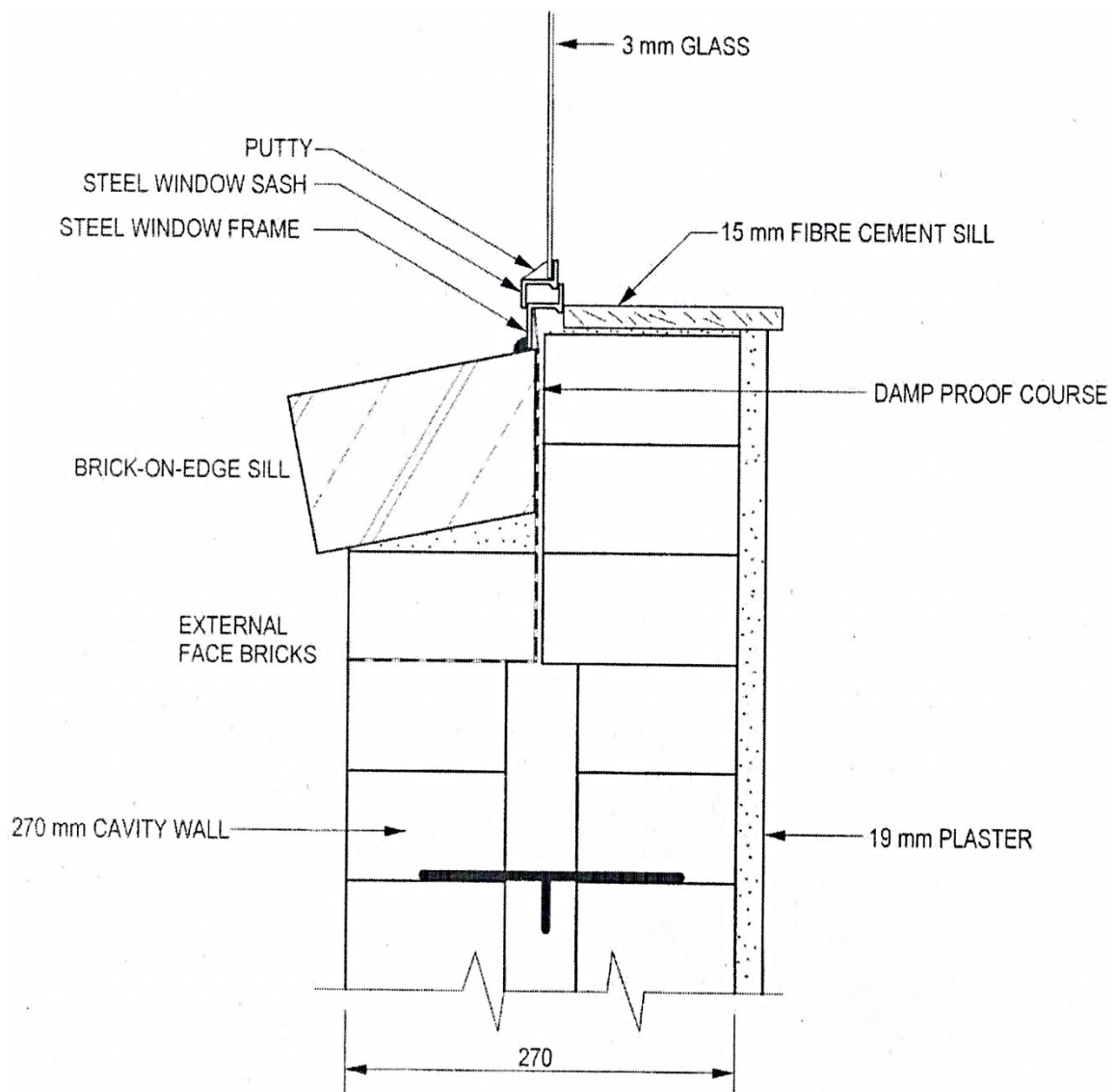
14 April 2020

This marking guideline consists of 9 pages.

QUESTION 1



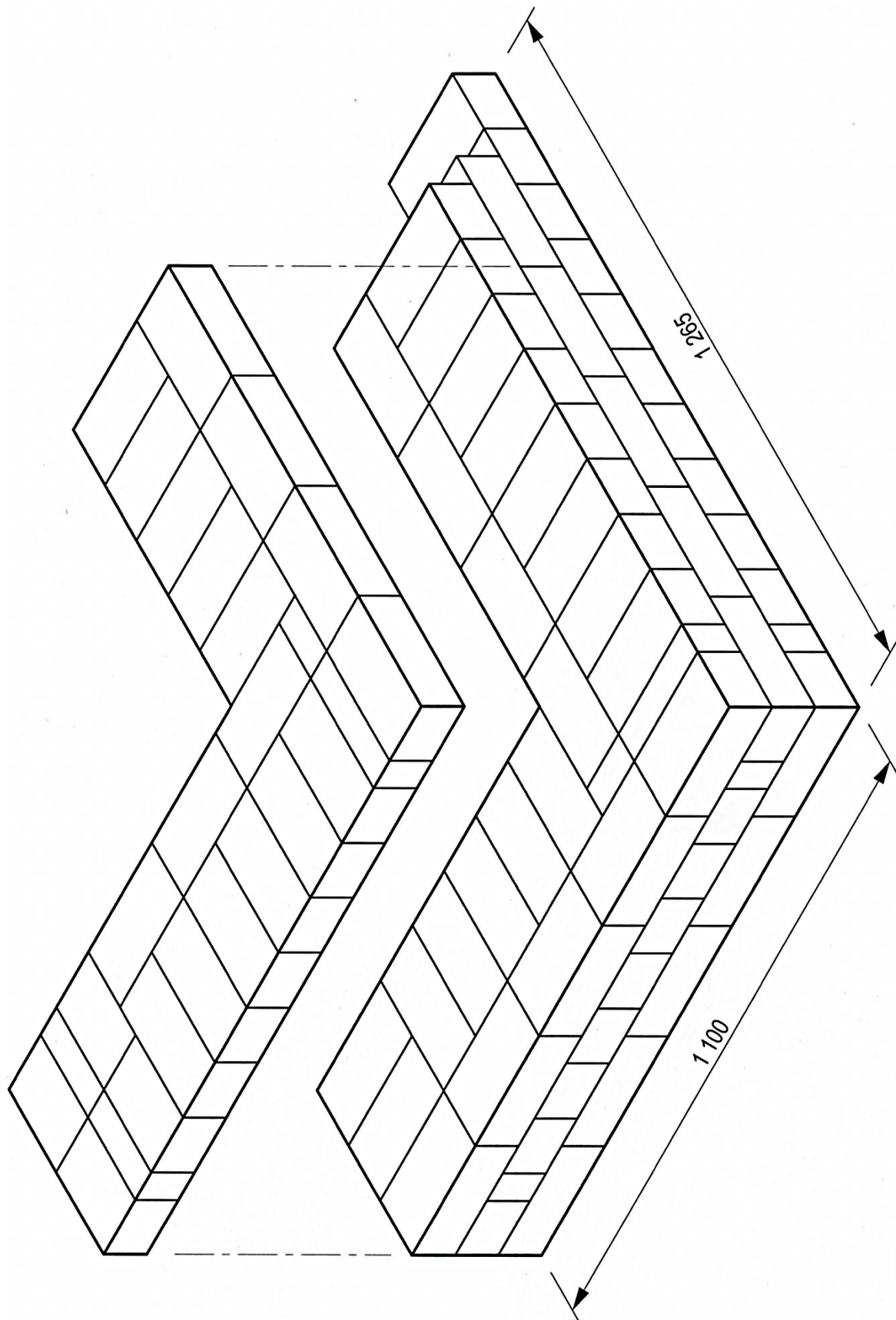
[17]

QUESTION 2

**VERTICAL SECTION THROUGH A STEEL CASEMENT WINDOW BUILT INTO
A CAVITY WALL
SCALE 1:5**

[15]

QUESTION 3

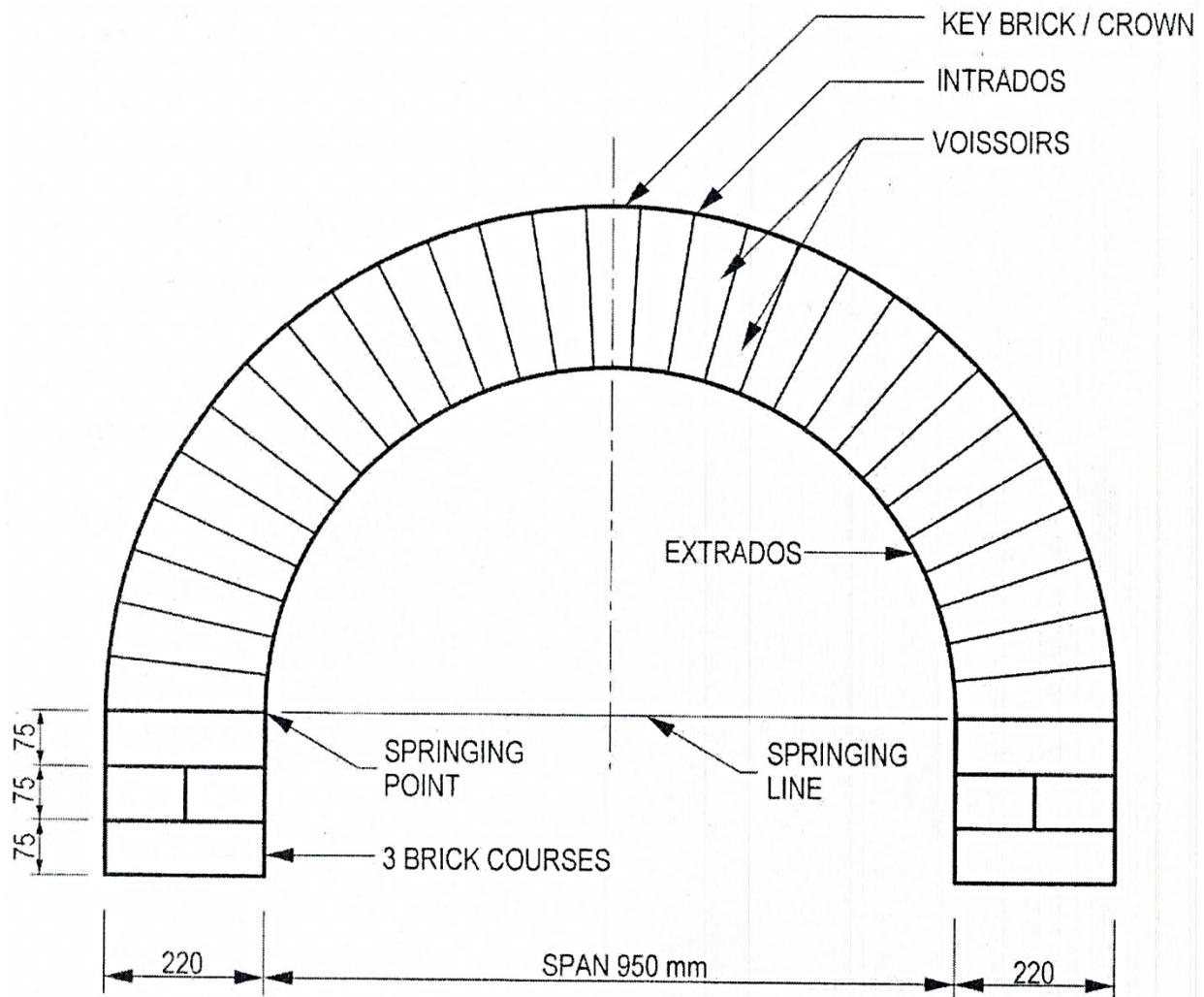


[15]

QUESTION 4

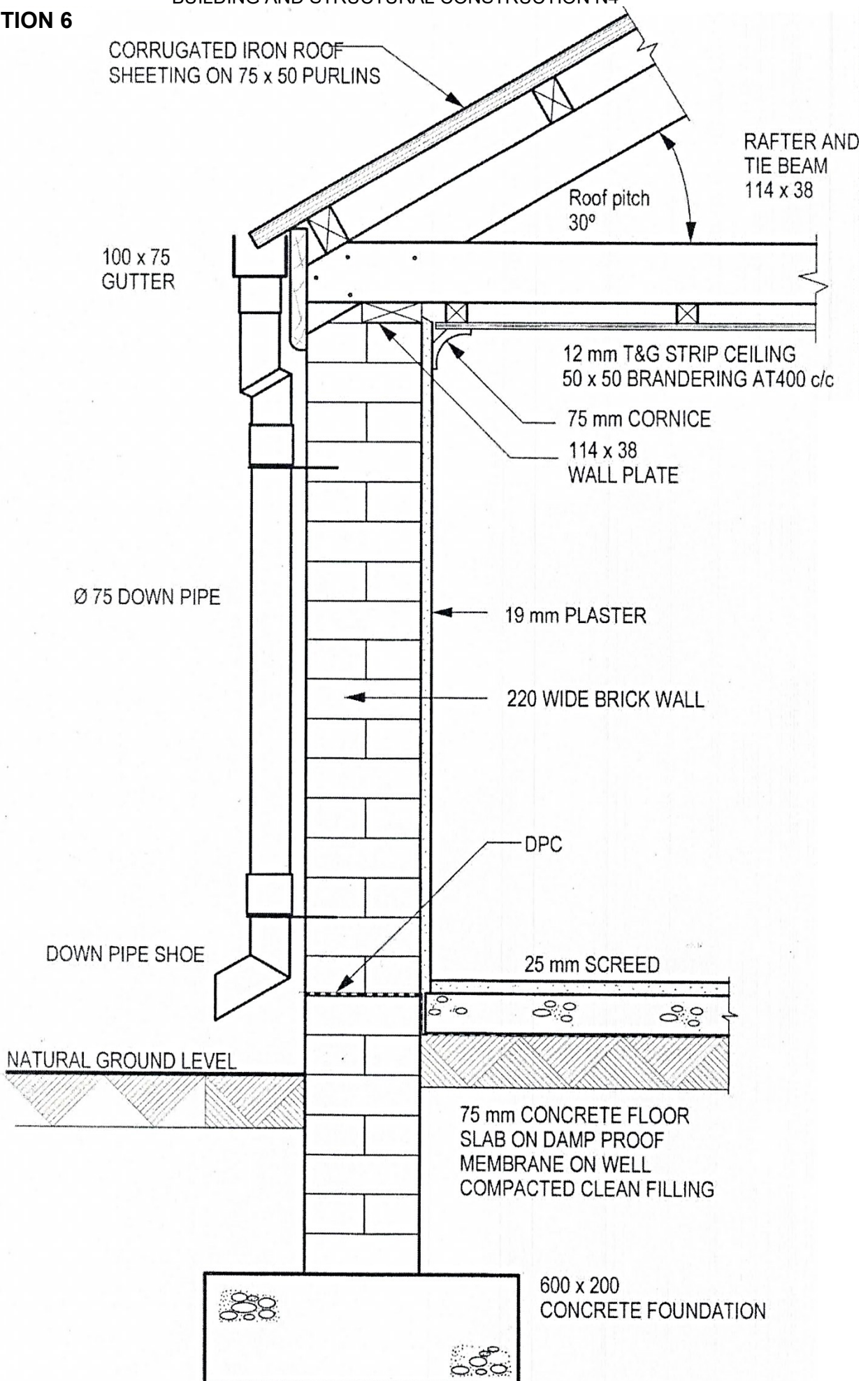
- 4.1
- Cement
 - Fine aggregate (sand)
 - Coarse aggregate (stone)
 - Potable water
- (4)
- 4.2
- Fibreboard (wood fibreboard, insulation board)
 - Gypsum board (plaster board)
 - Fibre-cement board
- (3)
- 4.3
- Snap-head or cup head rivet
 - Conical head rivet
 - Pan-head rivet
 - Flat-head or countersunk head rivet
- (Any 2 × 1) (2)
- [9]**

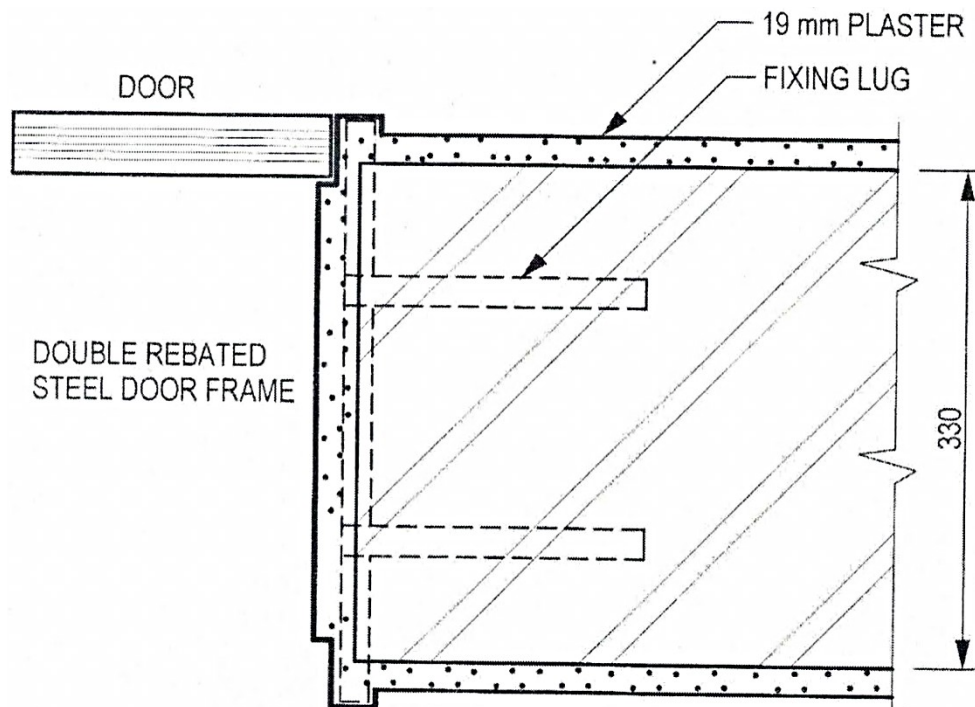
QUESTION 5



SEMICIRCULAR FACE-BRICK ARCH
SCALE 1:10

[12]

QUESTION 6**VERTICAL SECTION THROUGH THE EAVES OF A HOUSE****SCALE 1:10**

QUESTION 7

**HORIZONTAL SECTION THROUGH A 330 MM WIDE WALL WITH A STEEL DOORFRAME
SCALE 1:5**

[10]

MARK SHEET

QUESTION 1				
MARK ALLOCATION				
Correctness:		10		
Set-out lines corr.	1		Accuracy	3
Rafter	1		Cente lines	1
Strut	1		Labels	2
Gusset Plate corr.	1		Hatching	1
Steel cleat	1			
Purlin	1			
Roof covering	1		TOTAL	
Roof bolt	1		10 + 7	
Rivet lay-out corr.	2		= 17 Marks	

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

QUESTION 3	
MARK ALLOCATION	
Lengths corr	2
Wall width corr	1
3 courses high	2
Projected course	1
Corr bonding	3
Raking back	2
Stopped end	2
Accuracy	2
Total	15

QUESTION 4
REFER TO MARKING GUIDELINE
TOTAL = 9

QUESTION 5	
MARK ALLOCATION	
Span corr	1
220 mm deep corr	1
Bricks corr.	2
3 Courses below	2
Accuracy	2
Labels	2
Dimensions	2
Total	12

QUESTION 6		
MARK ALLOCATION		
CORRECTNESS:		15
Conc Fndt	1	
Wall corr	1	
Floor Construc.	2	
Roof Construc.	3	
Ceiling Construc.	3	
Gutter& Down pipe.	2	
Plaster & Screed	2	
Ground Level	1	
Accuracy		3
Hatching		1
Labels		3
Total		22

QUESTION 7		
MARK ALLOCATION		
Correctness:		6
Wall width corr	1	
Steel frame corr	3	
Door in Place	1	
Fixing lug	1	
Accuracy		2
Dimension		1
Labels		1
Total		10

TOTAL: 100