higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

STRUCTURAL STEEL DETAILING N5

29 MARCH 2018

This marking guideline consists of 7 pages.

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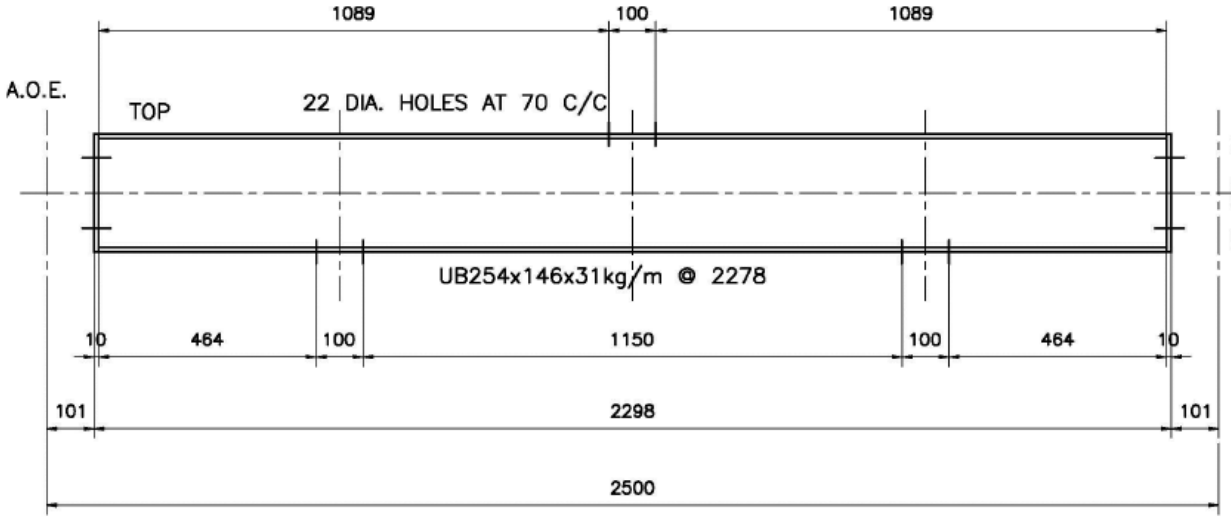
NOTE: Drawings were provided on A3 DRAWING SHEETS and had to be down-scaled to fit on A4 DRAWING SHEETS. Markers must have their own marking guidelines prepared to scale.

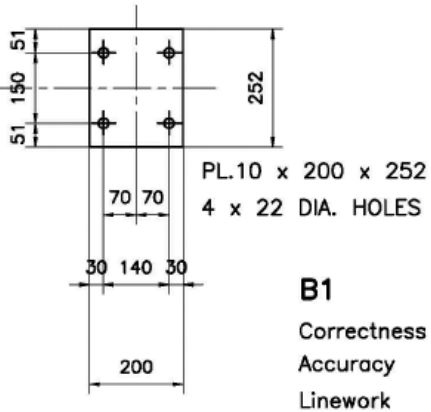
QUESTION 1: INTRODUCTION

1.1 False
1.2 True
1.3 False
1.4 True
1.5 True
1.6 True
1.7 True
1.8 True
1.9 False
1.10 True

(10 × 1) **[10]**

QUESTION 2: BEAMS

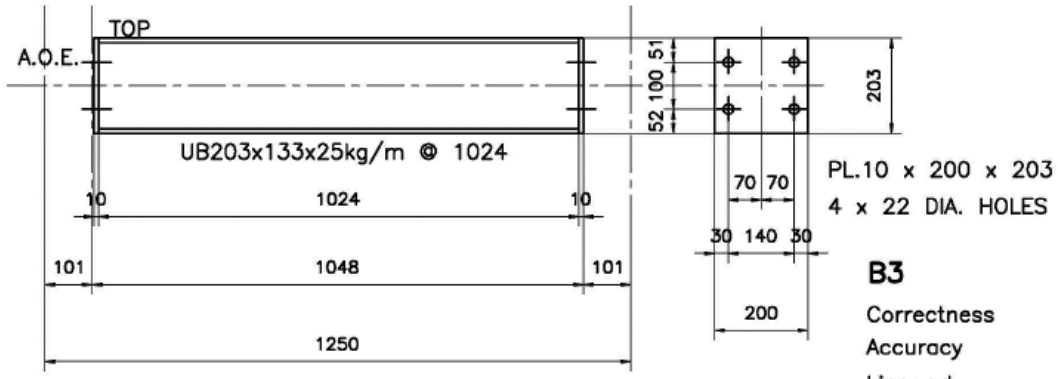




BEAM MARKED B1 –1– OFF
SCALE 1: 10

B1

Correctness	8
Accuracy	1
Linework	2
Dimensions	2
Title and scale	2
TOTAL	15



BEAM MARKED B3 –1– OFF
SCALE 1: 10

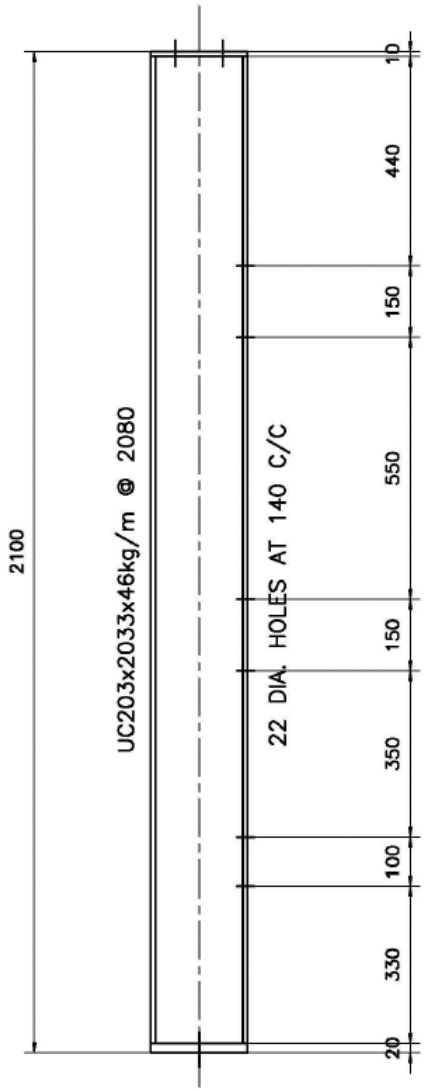
B3

Correctness	5
Accuracy	1
Linework	1
Dimensions	1
Title and scale	2
TOTAL	10

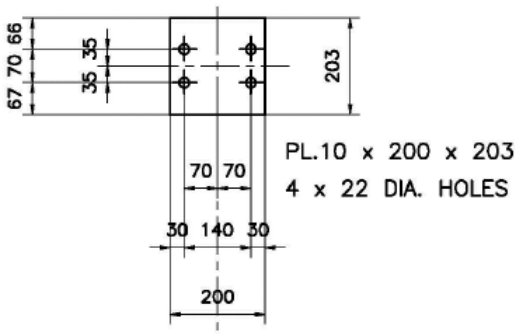
TOTAL 25

[25]

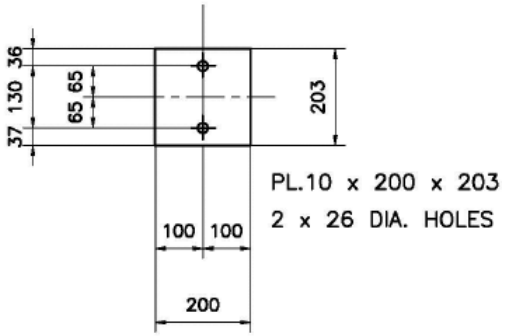
QUESTION 3: COLUMNS



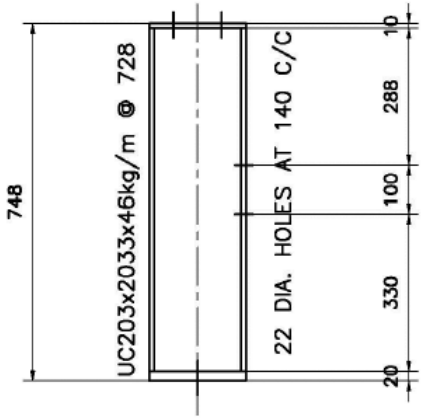
COLUMN MARKED C1 –1– OFF
SCALE 1: 10



COLUMN CAP PLATE C1,C2
SCALE 1: 10



COLUMN BASE PLATE C1,C2
SCALE 1: 10



COLUMN MARKED C2 –1– OFF
SCALE 1: 10

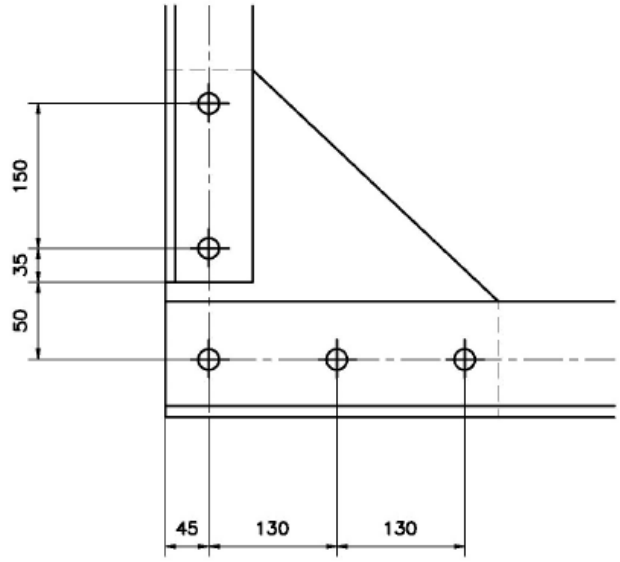
C1/C2

Correctness	14
Accuracy	2
Linework	1
Neatness	1
Dimensions	3
Title and scale	4
TOTAL	25

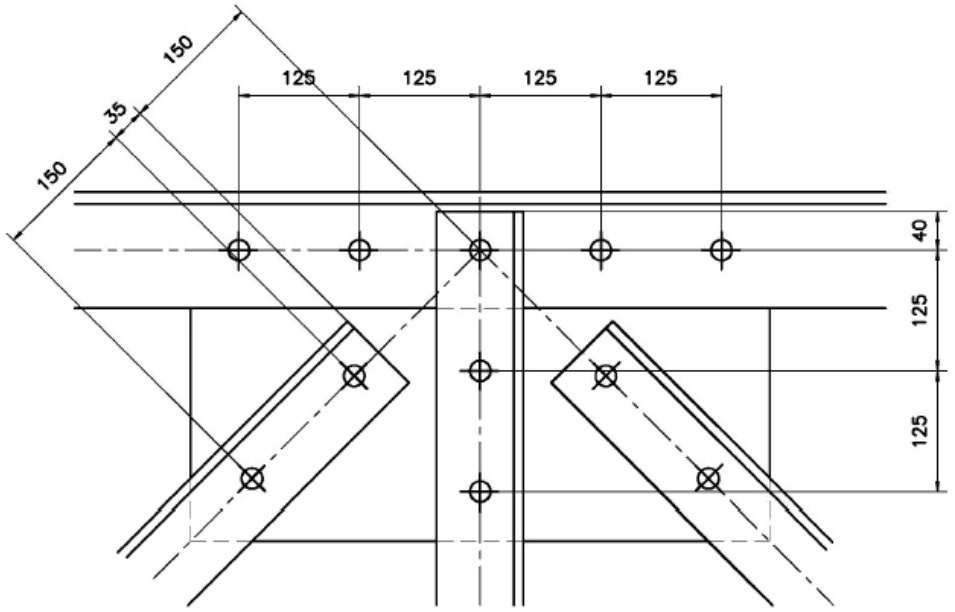
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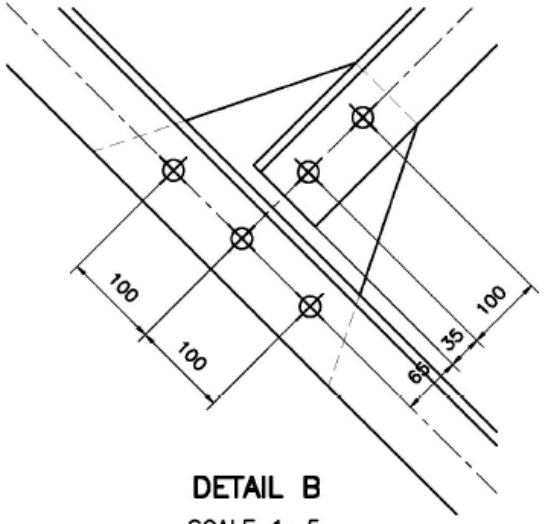
QUESTION 4: LATTICED GIRDERS



DETAIL A
SCALE 1: 5



DETAIL C
SCALE 1: 5



DETAIL B
SCALE 1: 5

DETAIL A/B/C

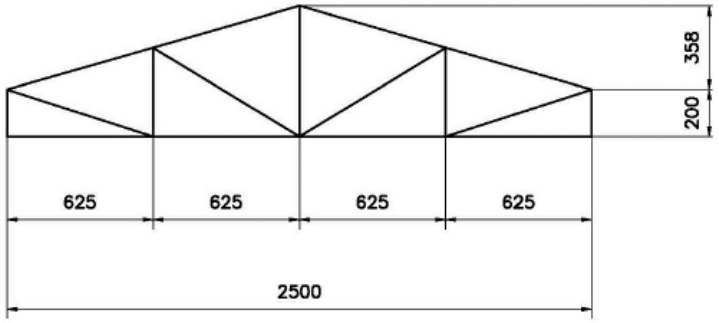
Correctness	2
Dimensions	1
Linework	1/2
Neatness	1/2
Title and scale	1

TOTAL 3 x 5=15

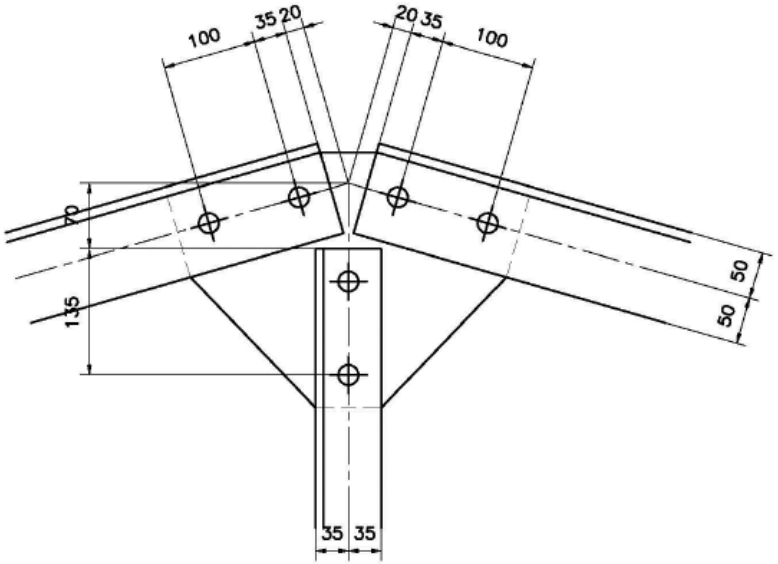
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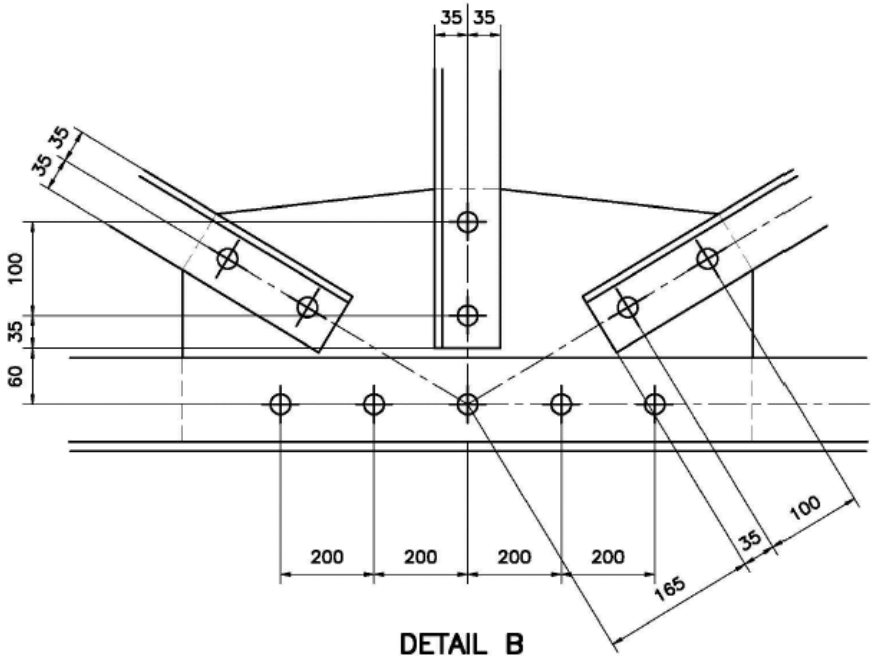
QUESTION 5: TRUSSES



TRUSS SYSTEM **(6)**
SCALE 1: 20



DETAIL A
SCALE 1: 5



DETAIL B
SCALE 1: 5

DETAIL A/B **TOTAL 20**

Correctness	4
Dimensions	1
Linework	1/2
Neatness	1/2
Title and scale	1

TOTAL 7x2=14

[20]

QUESTION 6: MATERIAL LIST

POS.	QTY.	DESCRIPTION	LENGTH	MASS	REMARKS

[5]

TOTAL: 100

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