higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

CIVIL AND STRUCTURAL STEEL WORK DETAILING (CAD COMPONENT)

NQF LEVEL 3

(Second paper)

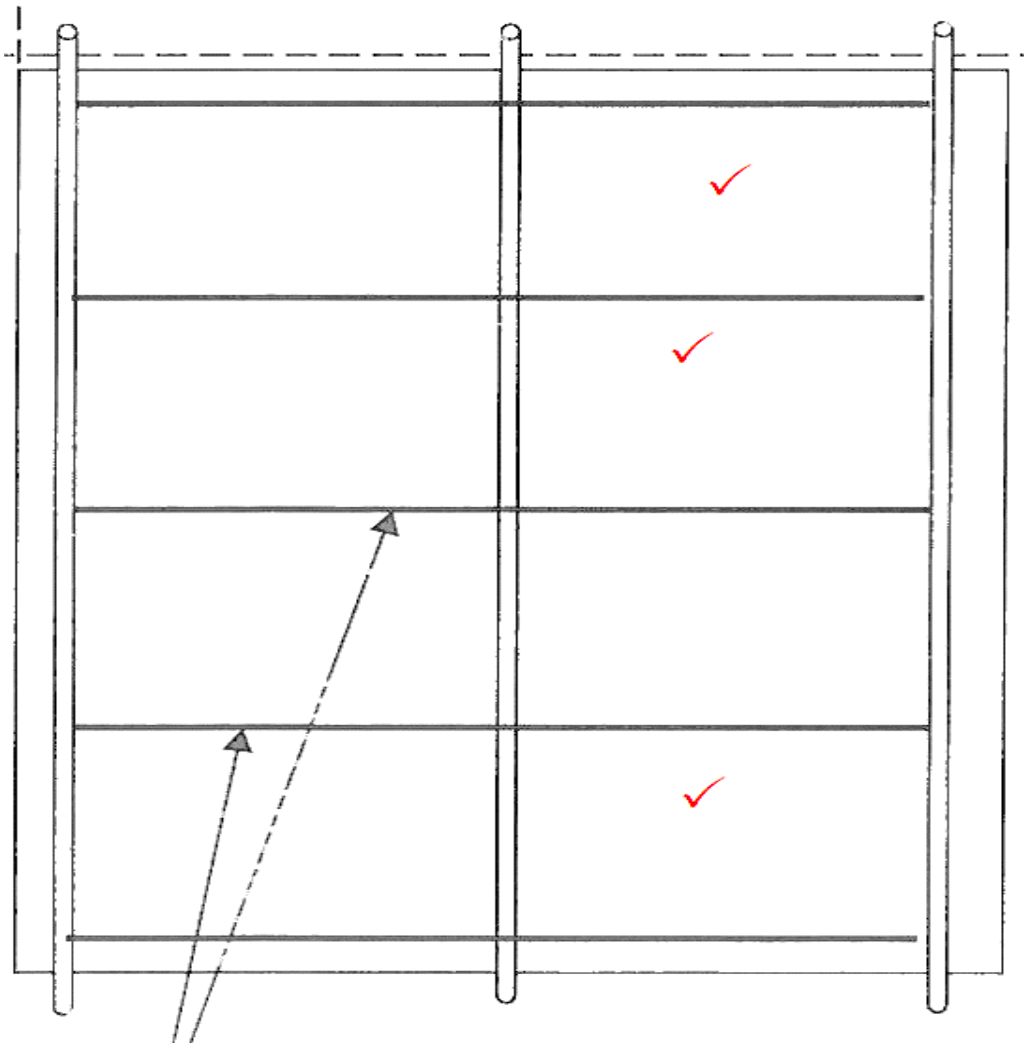
17 November 2023

This marking guideline consists of 7 pages.

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QUESTION 1: REINFORCED CONCRETE DETAILING

1.1.1

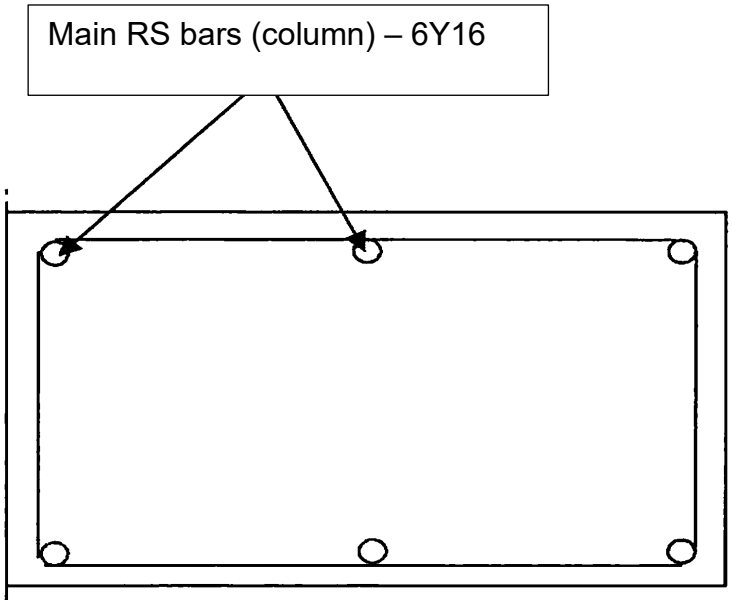


Rectangular column (Front view)

MARK ALLOCATION	
Correct scale	1
Correctness of detail	6
Labelling	2
Line work	2
TOTAL	**10**

(10)

1.1.2



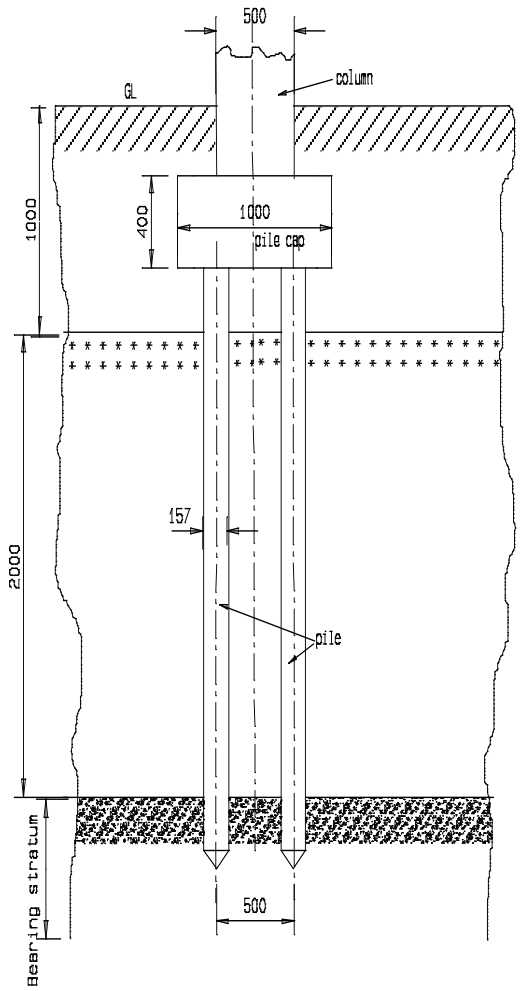
Rectangular column (Top view)

MARK ALLOCATION	
Correct scale	2
Correctness of detail	4
Labelling	2
Line work	2
TOTAL	**10**

(10)

1.2

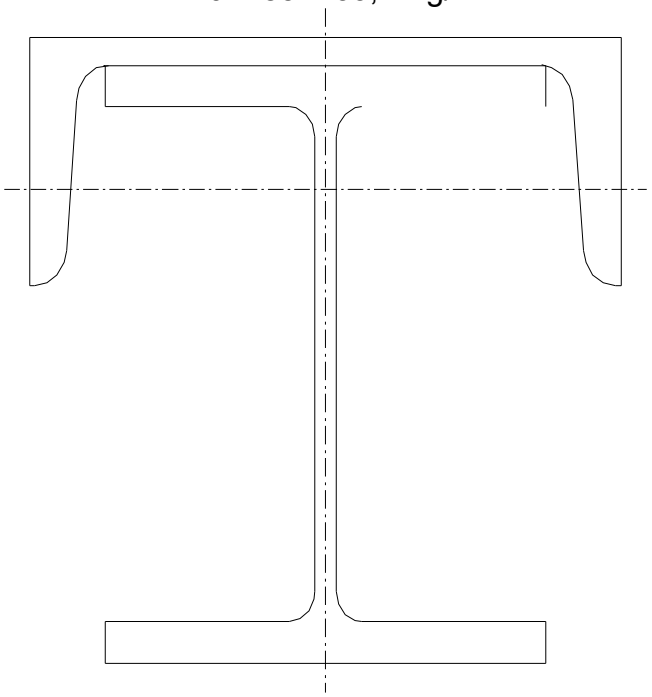
MARK ALLOCATION	
Correct scale	2
Correctness of detail	2
Labelling	2
Pile cap	1
Piles	2
Top soil	1
Soft stratum	1
Bearing stratum	1
Column	1
Line work	2
TOTAL	**15**



(15)
[35]

QUESTION 2: STRUCTURAL STEEL WORK DETAILING

2.1 240 × 85 × 33,2 Kg/m

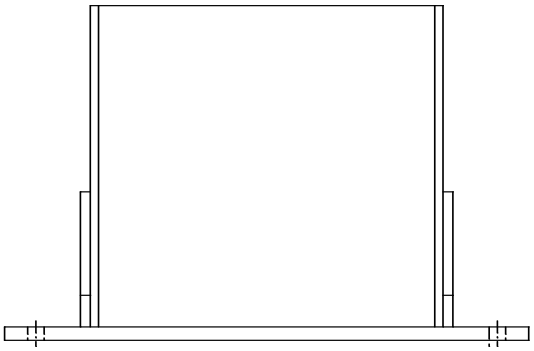


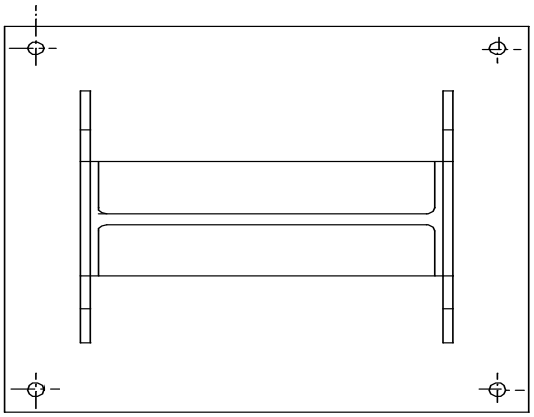
(Parallel flange) 406 × 178 × 62,7 kg/m
SCALE 1:5

Correctness – channel	3
Correctness – parallel flange	3
Line work	2
Correct scale	2
TOTAL	**10**

(10)

2.2



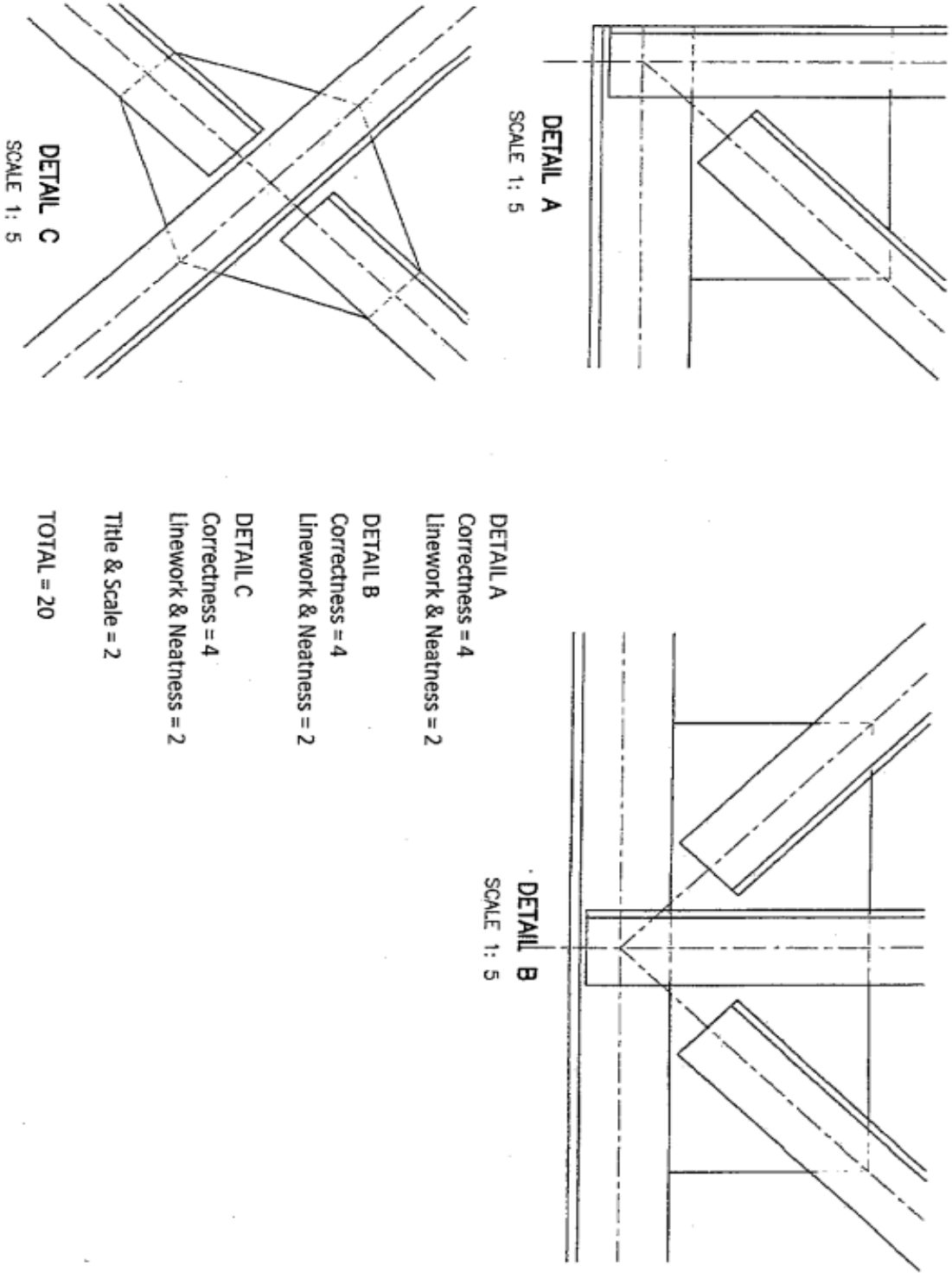


Front view	
Correctness – parallel flange	1
Correctness – gusset	1
Correctness – base plate	1
Line work	1
Correct scale	1
TOTAL	**5**

Top view	
Correctness – parallel flange	1
Correctness – gusset	1
Correctness – base plate	1
Line work	1
Correct scale	1
TOTAL	**5**

(10)
[20]

QUESTION 3: STRUCTURAL STEEL WORK DETAILING



DETAIL A
Correctness = 4
Linework & Neatness = 2

DETAIL B
Correctness = 4
Linework & Neatness = 2

DETAIL C
Correctness = 4
Linework & Neatness = 2

Title & Scale = 2

TOTAL = 20

[20]

TOTAL: 75

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