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JUNE EXAMINATION GRADE 12 2024

ENGINEERING GRAPHICS AND DESIGN PAPER 1

MARKS:100

TIME: 3 Hours



QUESTIONS		ANSWERS		
1	What scale is indicated for the site plan?	1:400	1	
2	In which city can the architectural company be found?	NEW YORK	1	
3	Name the company that printed the site plan?	HAWKEYE	1	
4	Who is the client?	T STARK	1	
5	What is the project number?	EGD2024P1-GDE	1	
6	What is the first revision?	ADDED A LEGEND	1	
7	What does the symbol at 1 indicate?	DIRECTION OF NORTH	1	
8	What is the width of Marvel Street in metres?	6	1	
9	Name the feature at 2.	CONTOUR LINE	1	
10	Which corner is the lowest corner on STAND 24?	В	1	
11	What does the abbreviation IC stand for?	INSPECTION CHAMBER	1	
12	How many palm trees are on STAND 24?	4	1	
13	Name the feature at 3.	WATT/ELECTRICAL METER	1	
14	What do the arcs at 4 indicate?	GATE SWING	1	
15	What does the dimension at 5 indicate?	HEIGHT ABOVE SEA LEVEL	1	
16	With regards to the building regulations, why would the proposed new extension NOT be accepted?	OVER THE BUILDING LINE	1	
17	What natural feature is south of STAND 24?	RIVER	1	
18	What does the arrow on the municipal sewer line indicate?	DIRECTION FLOW	2	
19	Why can nothing be built on the STAND next to boundary AB?	SERVITUDE	2	
20	In the space below (ANSWER 20), determine the perimeter of stand 24 in metres.		3	
21	In the space below (ANSWER 21), determine the total area of the existing building in square meters.			
22	In the space in the title panel (ANSWER 22), draw, in neat freehand, the elevation and plan of the SANS 10143 graphical symbol for a wall-mounted URINAL.			
TOTAL			30	

ANSWER 20:
SHOW ALL
CALCULATIONS.
APPLYING THE ✓
CORRECT
FORMULA
AB + BC + CD + DE+ EA
25 + 14.142 + 30 +
35 + 40
=144.142 ✓

CONVERTED TO
METERS

ANSWER 21:
SHOW ALL CALCULATIONS.
APPLYING THE CORRECT FORMULA

(18 x 15) - (11,5 x 1.5) - (7 x 4,55)

= 220.9m²

CONVERTED TO METERS SQUARED









