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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**NASIONALE
SENIOR SERTIFIKAAT**

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V1

NOVEMBER 2015

MEMORANDUM

PUNTE: 100

Hierdie memorandum bestaan uit 7 bladsye.

	ANTWOORDE	
1	AFSP-2015	1
2	2	1
3	1	1
4	MEV. SCHUTTE	1
5	2015-02-13	1
6	2	1
7	INSPEKSIEKAMER	1
8	VLOEIRIGTING	1
9	BOOM	1
10	ROOI	1
11	KONTOERLYN	1
12	SLOOP	1
13	30,25 m	1
14	4 700 mm	1
15	3 m	2
16	SUID-WES	2
17	ELEKTRIESE SUBSTASIE	2
18	72 m [berekening 1, antwoord 1, omgeskakel na meter 1]	3
19	248m ² [berekening 1, antwoord 1, meter ² 1]	3
20	<i>Sien hieronder</i>	4

TOTAAL 30

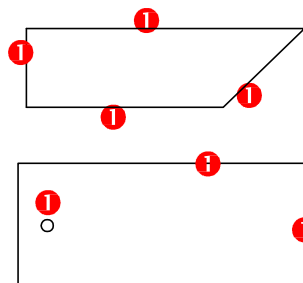
ANTWOORD 18
Toon ALLE berekeninge.

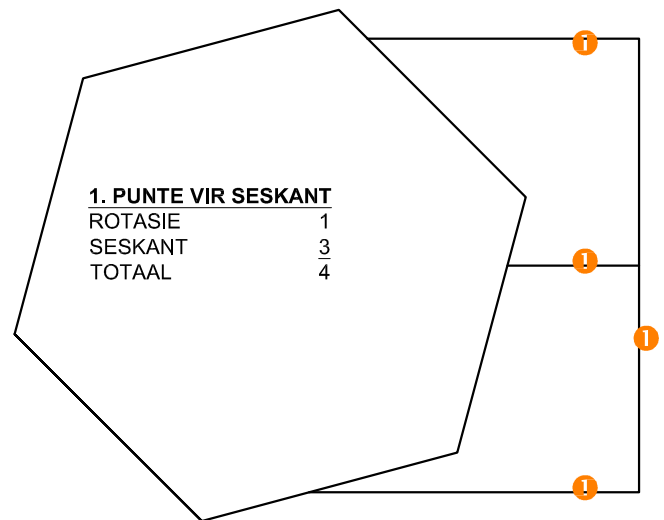
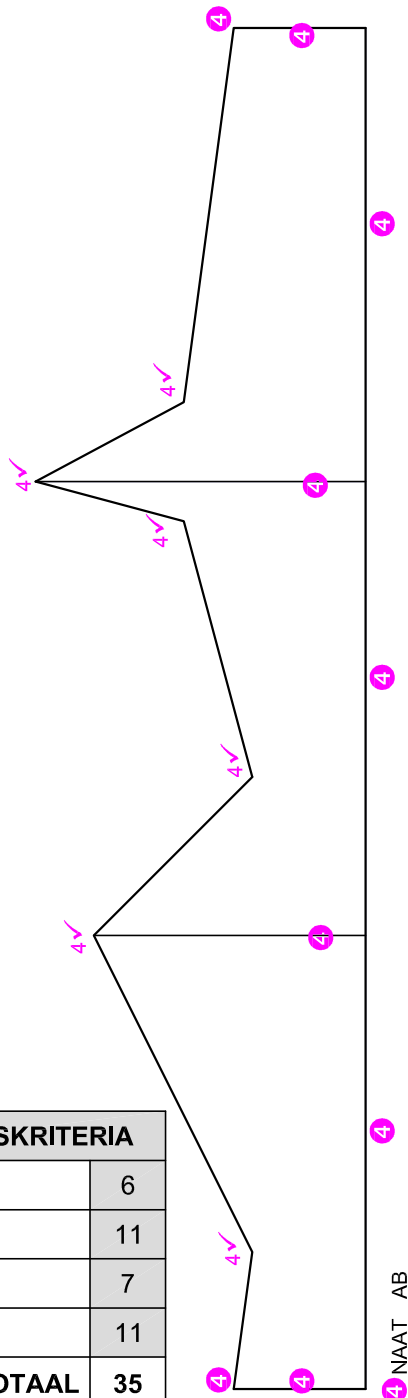
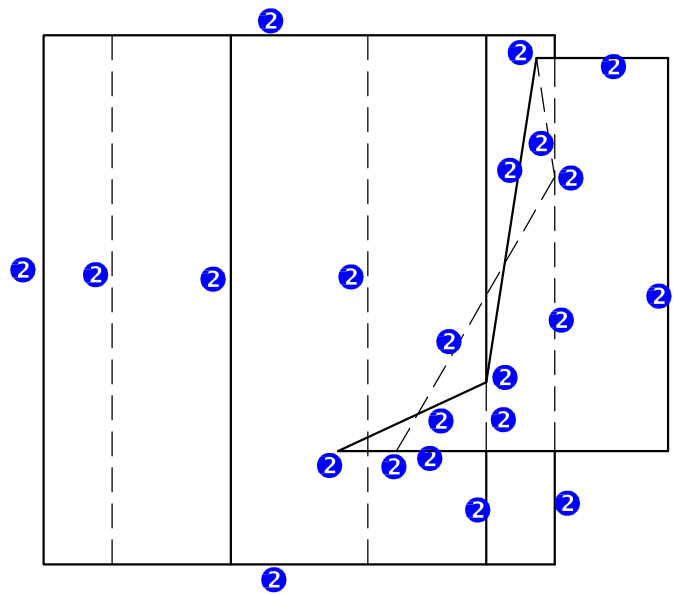
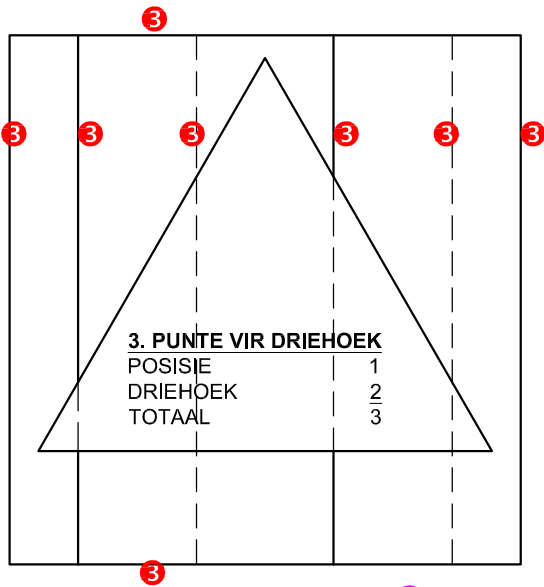
$$13 + 6 + 6 + 6 + 3 + 8 + 10 + 20 = 72 \text{ m}$$

ANTWOORD 19
Toon ALLE berekeninge.

13 x 6	= 78
6 x 7	= 42
10 x 8	= 80
8 x 6	= 48
	<u>248 m²</u>

20

VRYHAND 1

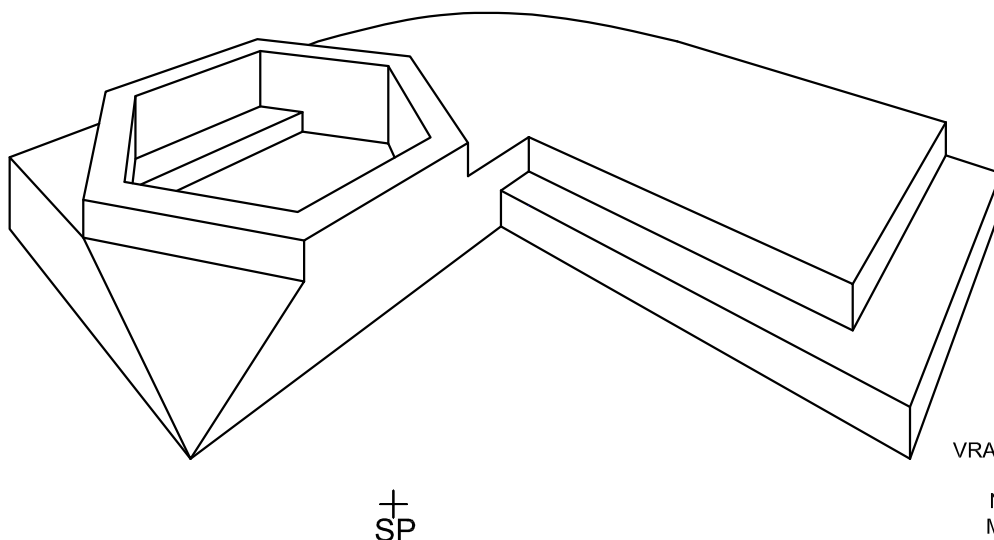
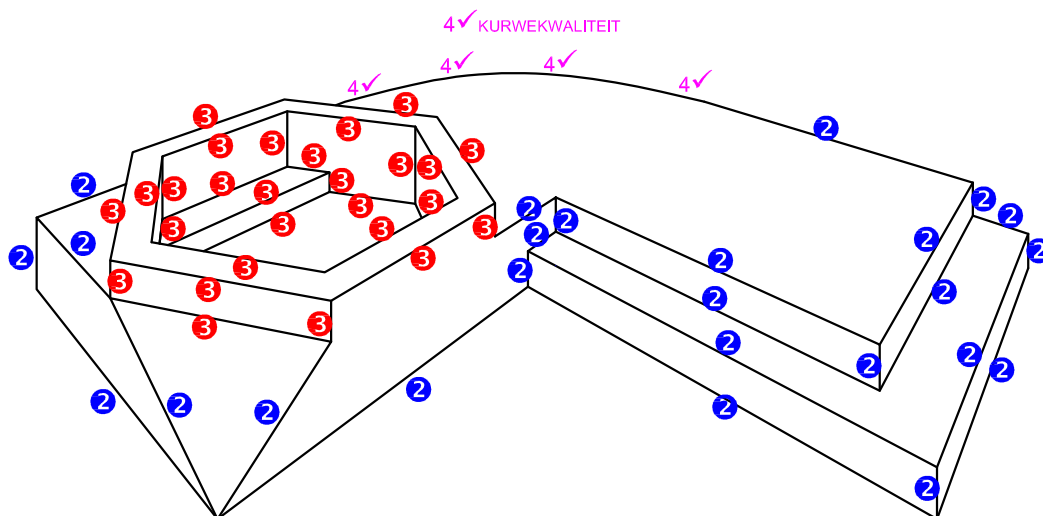
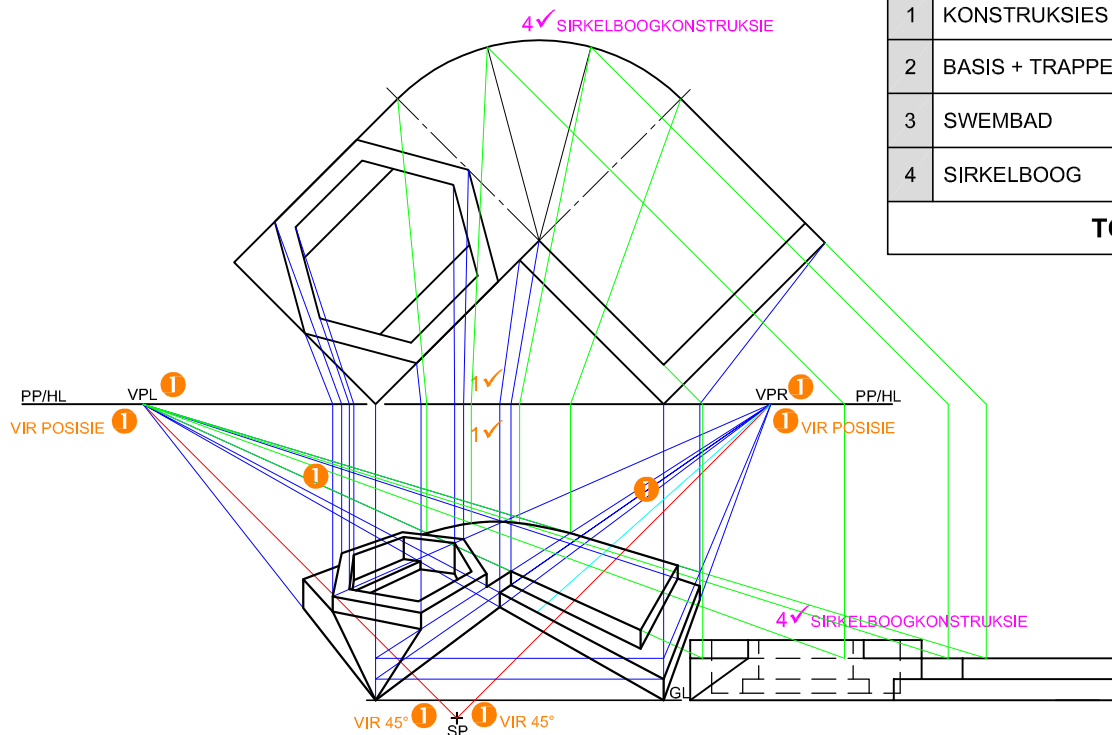
**ASSESSERINGSKRITERIA**

1	BOAANSIG	6
2	VOORAANSIG	11
3	REGTERAANSIG	7
4	ONTWIKKELING	11
TOTAAL		35

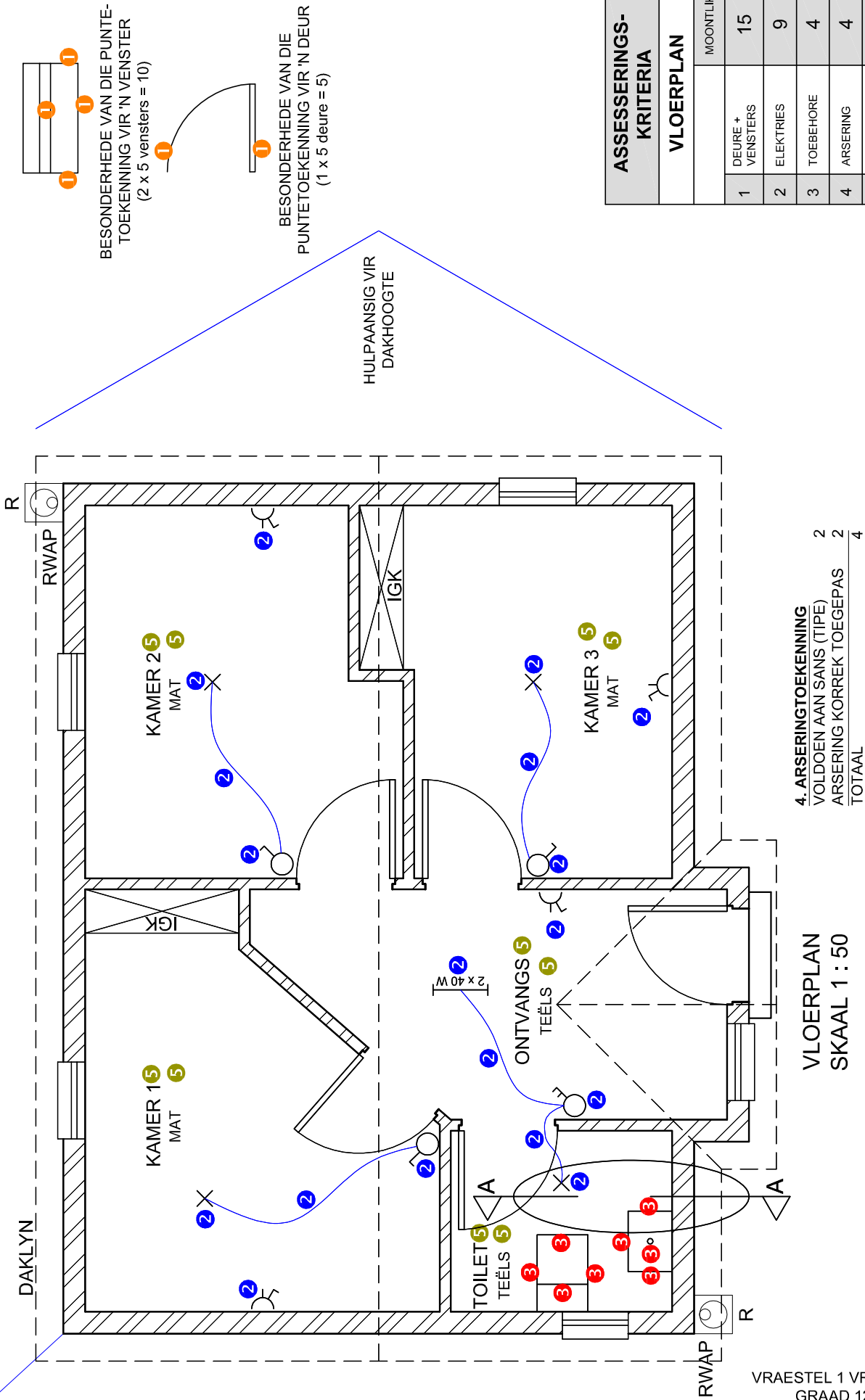
VRAESTEL 1 VRAAG 2
 GRAAD 12
 November 2015
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ASSESSERINGSKRITERIA

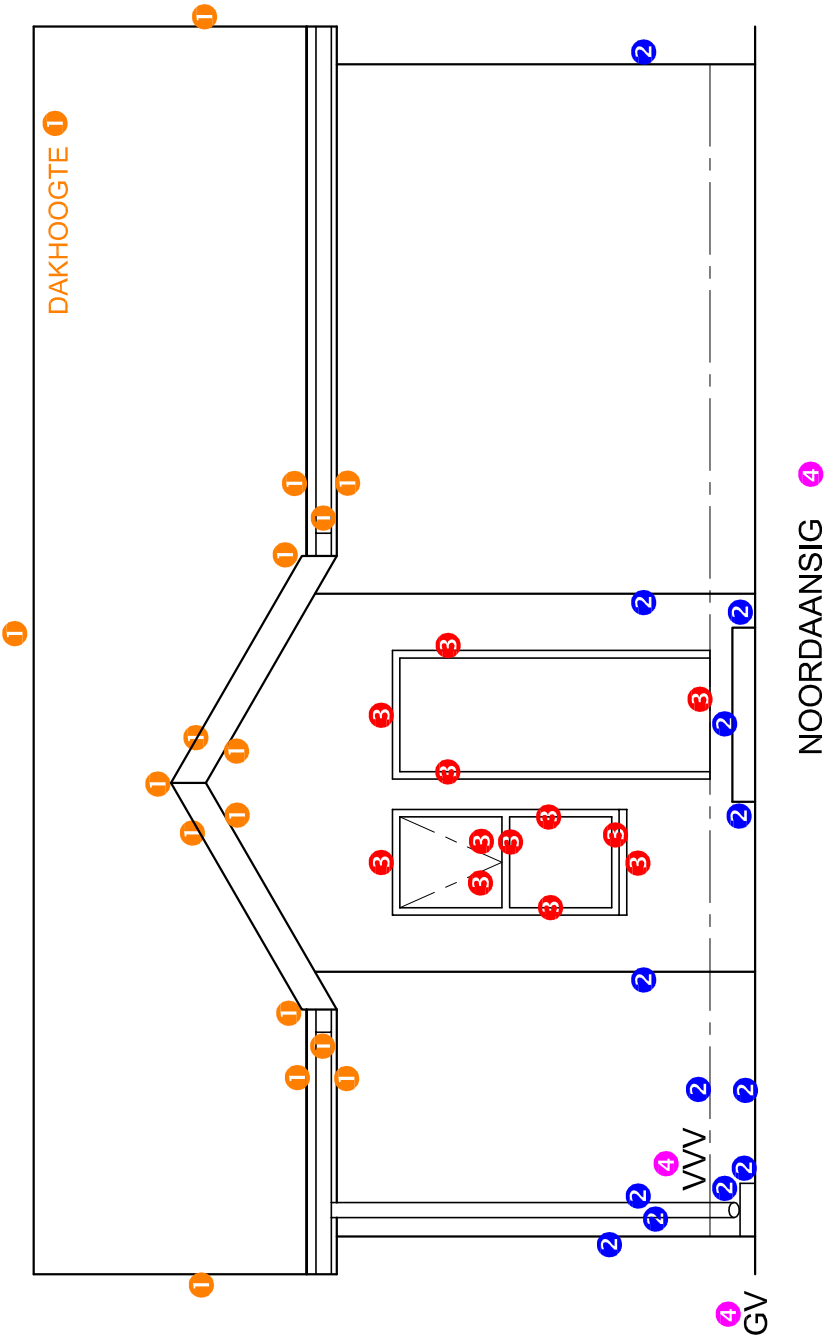
1	KONSTRUKSIES + VP's	6
2	BASIS + TRAPPE	12½
3	SWEMBAD	13½
4	SIRKELBOOG	7
TOTAAL		39



VRAESTEL 1 VRAAG 3
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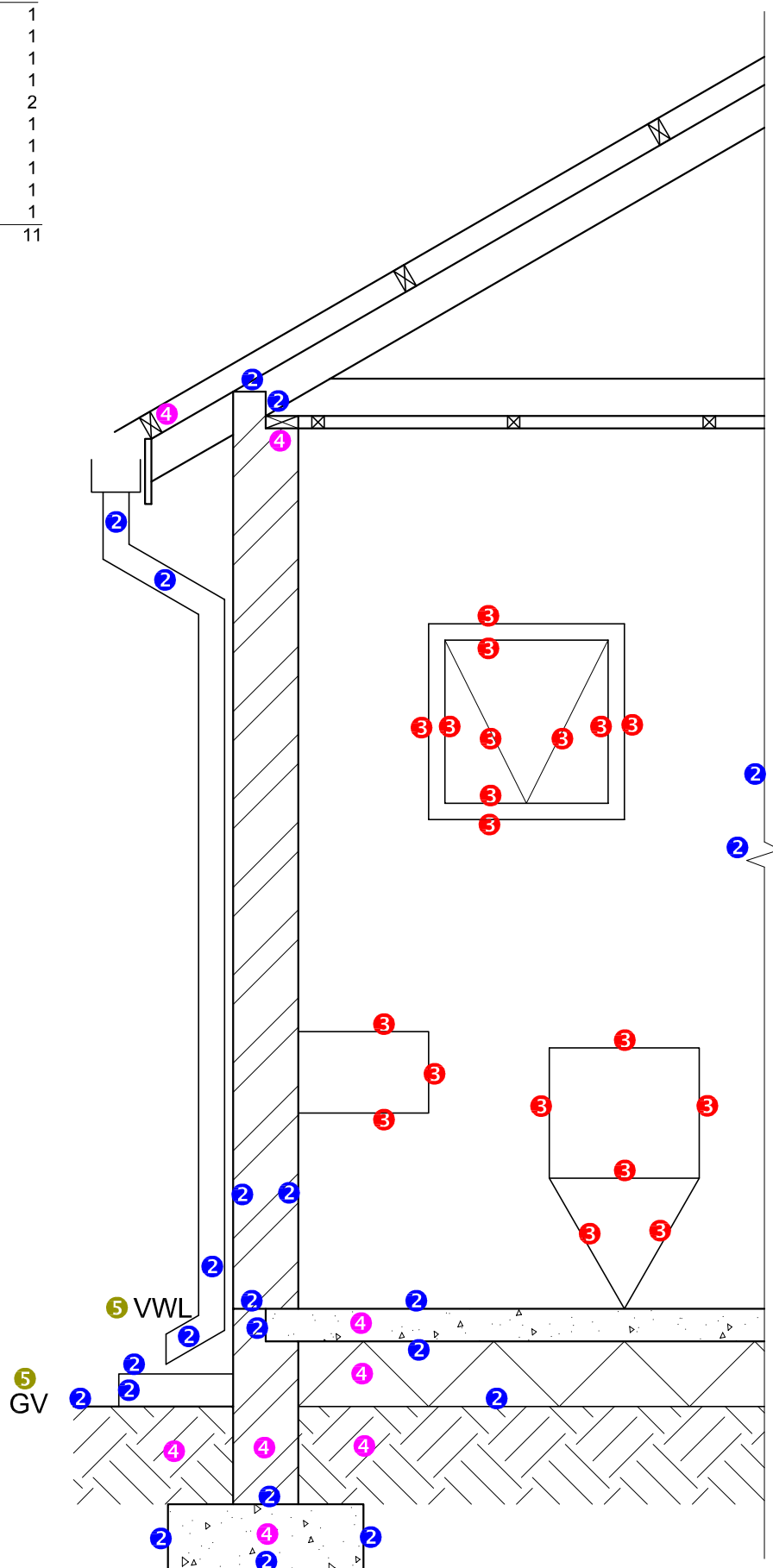
ASSESSERINGS- KRITERIA		
VLOERPLAN		
		MOONTLIK
1	DEURE + VENSTERS	15
2	ELEKTRIES	9
3	TOEBEHORE	4
4	ARSERING	4
5	BYSKRIFTE	5
SUBTOTAAL		37



ASSESSERINGS- KRITERIA		
NOORDAANSIG		
1	DAK	8½
2	MURE + RWAP + VWV + RIOOLPUT	6½
3	DEUR + VENSTER	6
4	BYSKRIFTE	1½
SUBTOTAAL		22½

1. PUNTTOEKENNING VIR DAK

A: DAKHELLING	1
B: DAKBEDEKKING	1
C: DAKLATTE	1
D: DAKLATSPASIERING	1
E: DAKKAP	2
F: FASSIEPLANK	1
G: MUURPLAAT	1
H: PLAFONLATTE	1
I: PLAFONBORD	1
J: GEUT	1
TOTAAL	11



GEDETAILLEERDE SNIT
SKAAL 1 : 20

VRAESTEL 1 VRAAG 4
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**ASSESSERINGS-
KRITERIA****GEDETAILLEERDE
SNIT**

1	DAK- BESONDERHEDE	11
2	FONDASIE + MUUR + RWAP + RIOOLPUT + BREEKLYN	11
3	VENSTER + SK + WB	9½
4	ARSERING	4
5	BYSKRIFTE	1
SUBTOTAAL		36½