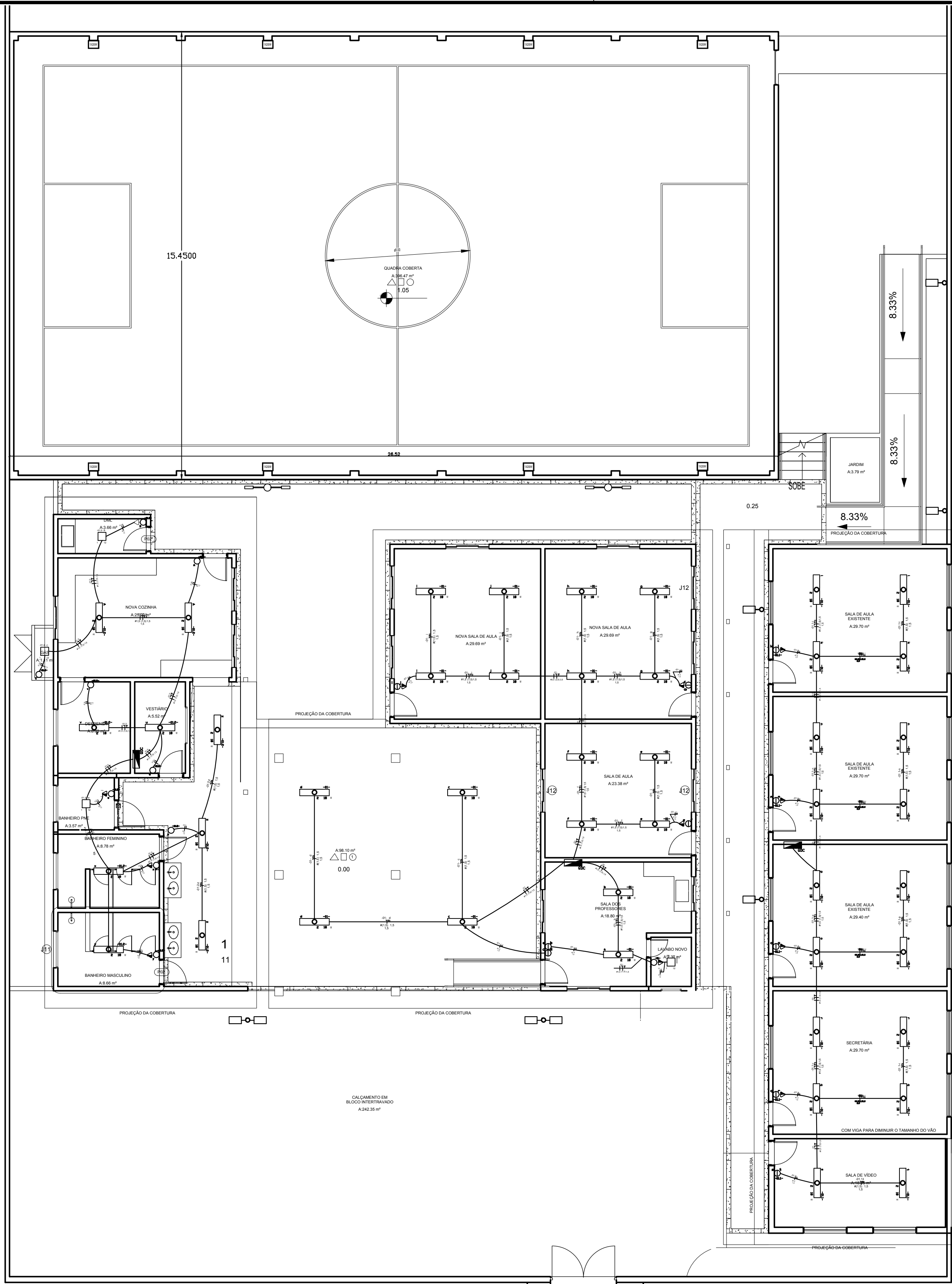




PLANTA TÉRREO- ILUMINAÇÃO

1:100

QUADRO DE CARGAS - QDG

SEM ESCALA

QDG																					
CIRCUITOS	DESCRIÇÕES	ILUMINAÇÃO 12W	ILUMINAÇÃO 18W	ILUMINAÇÃO 100W	ILUMINAÇÃO 200W	TOMADAS 100W	TOMADAS 300W	TOMADAS 600W	CARGA (W)	F.P.	CARGA (VA)	FASES	POT.- R (W)	POT.- S (W)	POT.- T (W)	NÍVEL DE TENSÃO	COND (MM²)	CORRENTE CALCULADA	CORRENT E PROTEÇÃ O	DISJUNTO R (A)	CURVA
1	ILUMINAÇÃO	1	32						588	0,92	547,83	R	547,83			127	2,5	3,97	4,96	10	TIPO B
2	TOMADAS					4	1	1	1300	0,92	1413,04	S		1304,35		127	2,5	10,24	12,80	16	TIPO B
3	TOMADAS					12			1200	0,92	1304,35	T			760,87	127	2,5	9,45	11,81	10	TIPO B
4	ILUMINAÇÃO QUADRA				8				1600	0,92	1739,13	R+S	869,57	869,57		220	2,5	7,27	9,09	16	TIPO B
5	ILUMINAÇÃO EXTERNA			8					800	0,92	869,57	R+T	434,78		434,78	220	2,5	3,64	4,55	16	TIPO B
6	QDC1				2876				2876	1	2876,00	S+T		1438,00		220	25,0	7,56	9,45	20	TIPO B
7	QDC2								15660,00	1	15660,00	R+T	7830		7830	220	10,0	68,00	70,00	70	TIPO B
TOTAL	-	1	32			16	1	1	24024,00	-	24409,91	-	9682,17	3611,91	10463,65	-	-	-	-	-	-

DETALHE ILUMINAÇÃO QUADRA

SEM ESCALA

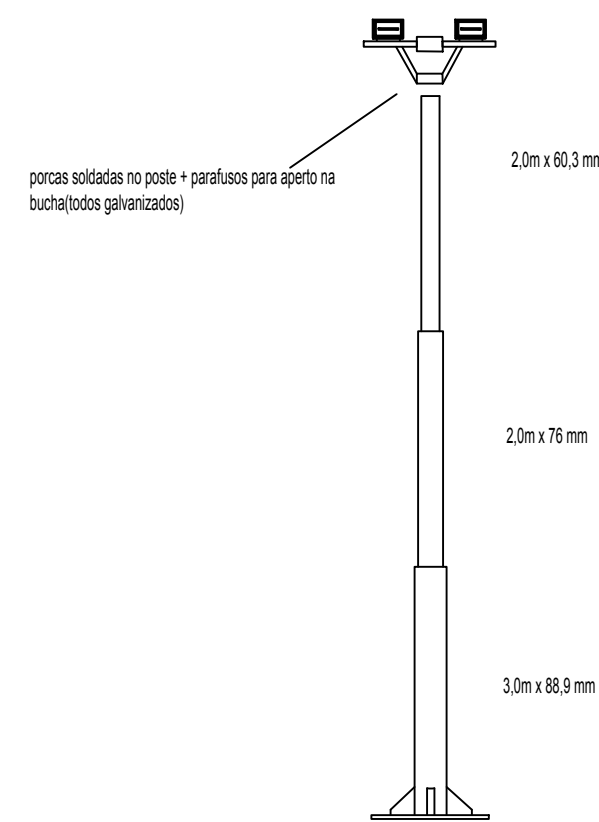
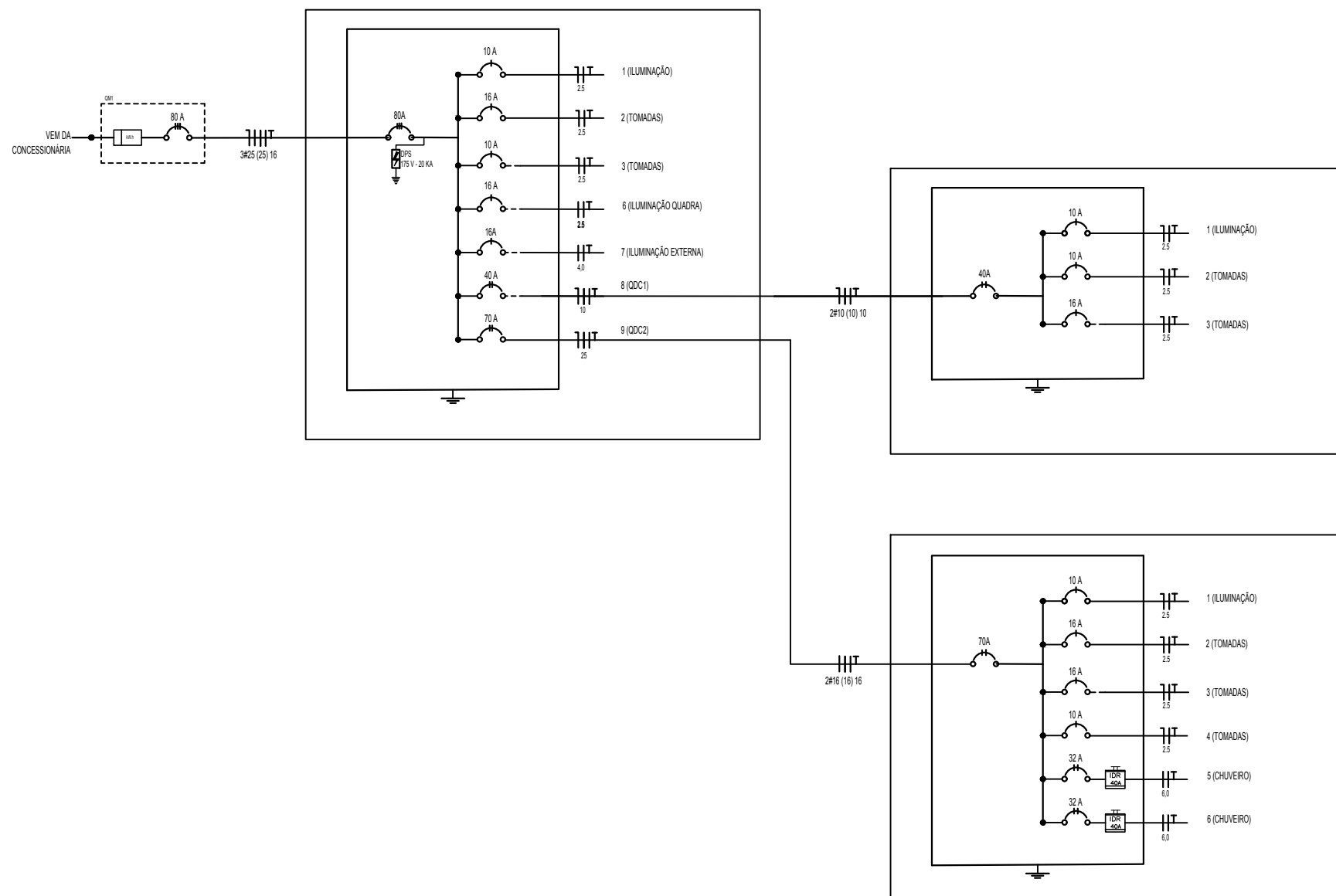


DIAGRAMA UNIFILAR GERAL

SEM ESCALA



DEMANDA - QDG

SEM ESCALA

CÁLCULO DA DEMANDA EM KVA DO QDG

Carga Instalada de Iluminação e Tomadas: 13 kW
Fator de Potência: 0,92

Fator de demanda (ND-5.1 CEMIG- tab. 11) >12kVA = 0,5
Demanda de Iluminação e tomadas: (13 / 0,92) = 13,6
(1,6* 0,5) + 12 = 12,8kVA

Carga Instala de Tomadas de Uso Específico (TUE): 11kW
Fator de Potência: 1

Fator de demanda (ND-5.1 CEMIG- tab. 14) 0,92
Demanda de tomadas: 11 / 1 * 0,92 = 10,1kVA

Demanda total = 12,8 + 10,1 = 22,9kVA
Dimensionamento:

- Ramal de Entrada Subterrâneo a 4 fios 3 fases, com #25mm2,
- Eletroduto em polietileno de alta densidade PEAD Ø40mm
- Disjuntor termomagnético 3Ø 80 A
- Condutor de aterramento de cobre nu 10 mm2 com 2 eletrodos
- Condutor de proteção 16 mm2

LEGENDA

SEM ESCALA

- Luminária de sobrepôr tubular 0300x1200mm - caixa linear - 2 lâmpadas de LED 18w
- Luminária de sobrepôr quadrada 0300x0300mm - lâmpada de LED tipo bulbo 9_12w
- ELETRODUTO QUE DESCE
- ELETRODUTO QUE SOBE
- INTERRUPTOR SIMPLES DE UMA SEÇÃO
- INTERRUPTOR PARALELO
- INTERRUPTOR SIMLES DE DUAS SEÇÕES
- INTERRUPTOR SIMLES DE TRÊS SEÇÕES
- PADRÃO DE ENTRADA DE ENERGIA TRIFÁSICO 100A
- CAIXA DE PASSAGEM NA PAREDE 4X2 COM TAMPA CEGA
- TOMADA BAIXA A 30 CM DO PISO ACABADO
 - 01- identificação circuito de alimentação da tomada;
 - *300" identificação da potência máxima da tomada.
- TOMADA MÉDIA A 120 CM DO PISO ACABADO
 - 01- identificação circuito de alimentação da tomada;
 - *100" identificação da potência máxima da tomada.
- TOMADA ALTA A 220 CM DO PISO ACABADO
 - 08- identificação circuito de alimentação da tomada;
 - *5500" identificação da potência máxima da tomada.
- REPRESENTA O CABO: FASE
- REPRESENTA O CABO: NEUTRO
- REPRESENTA O CABO: TERRA
- REPRESENTA O CABO: PARALELO
- REPRESENTA O CABO: RETORNO
- IDENTIFICAÇÃO DE CABOS/CIRCUITO NO ELETRODUTO
 - 01- número do circuito representado;
 - *01- identificação do cabo retorno no eletroduto (se houver);
 - *02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 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