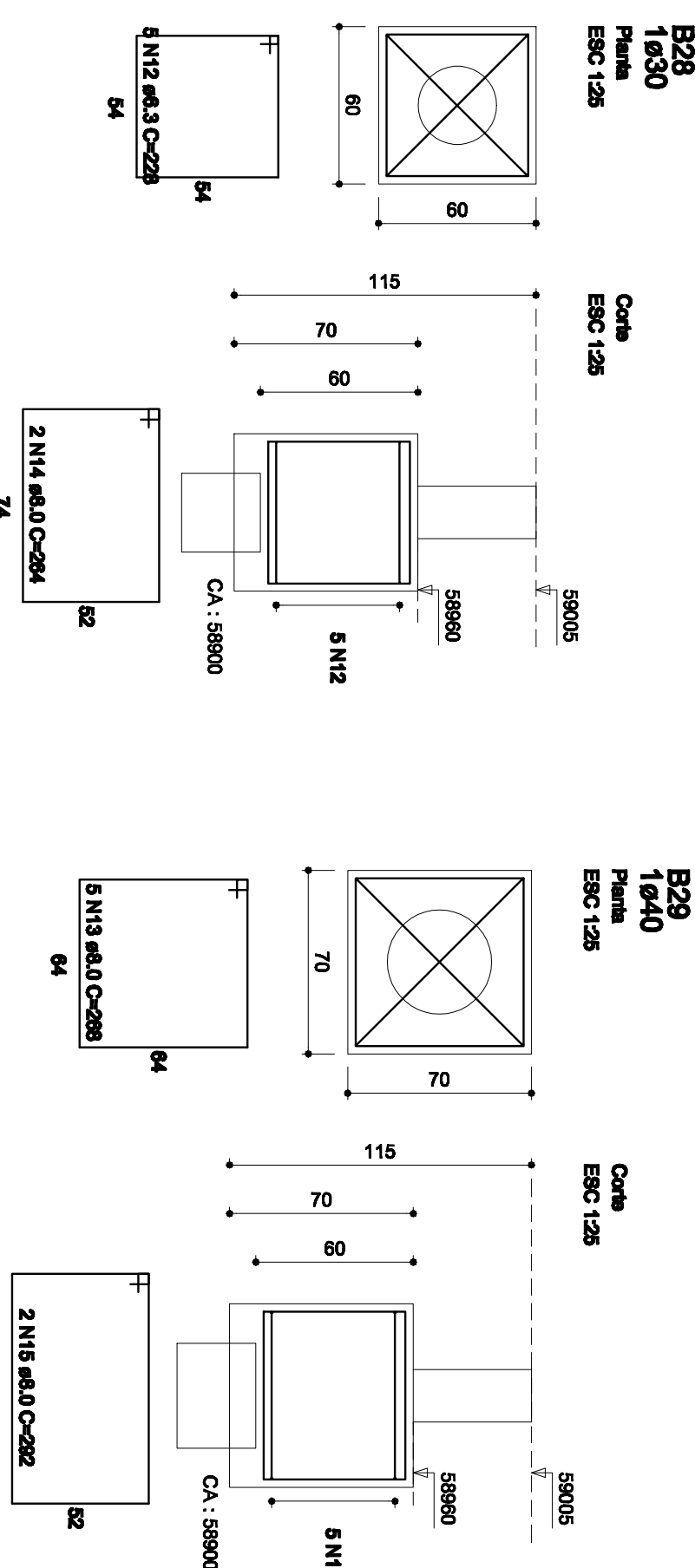
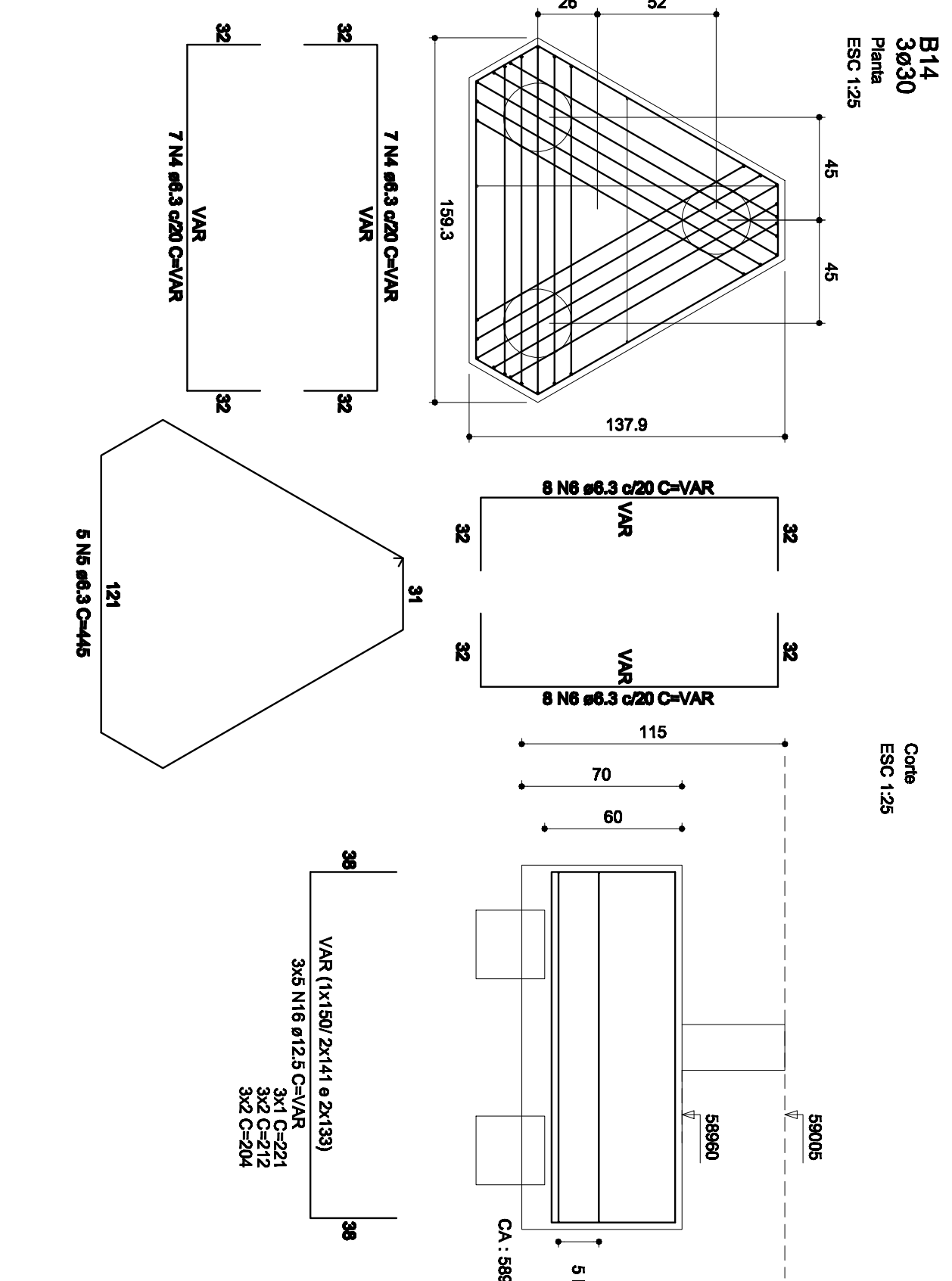
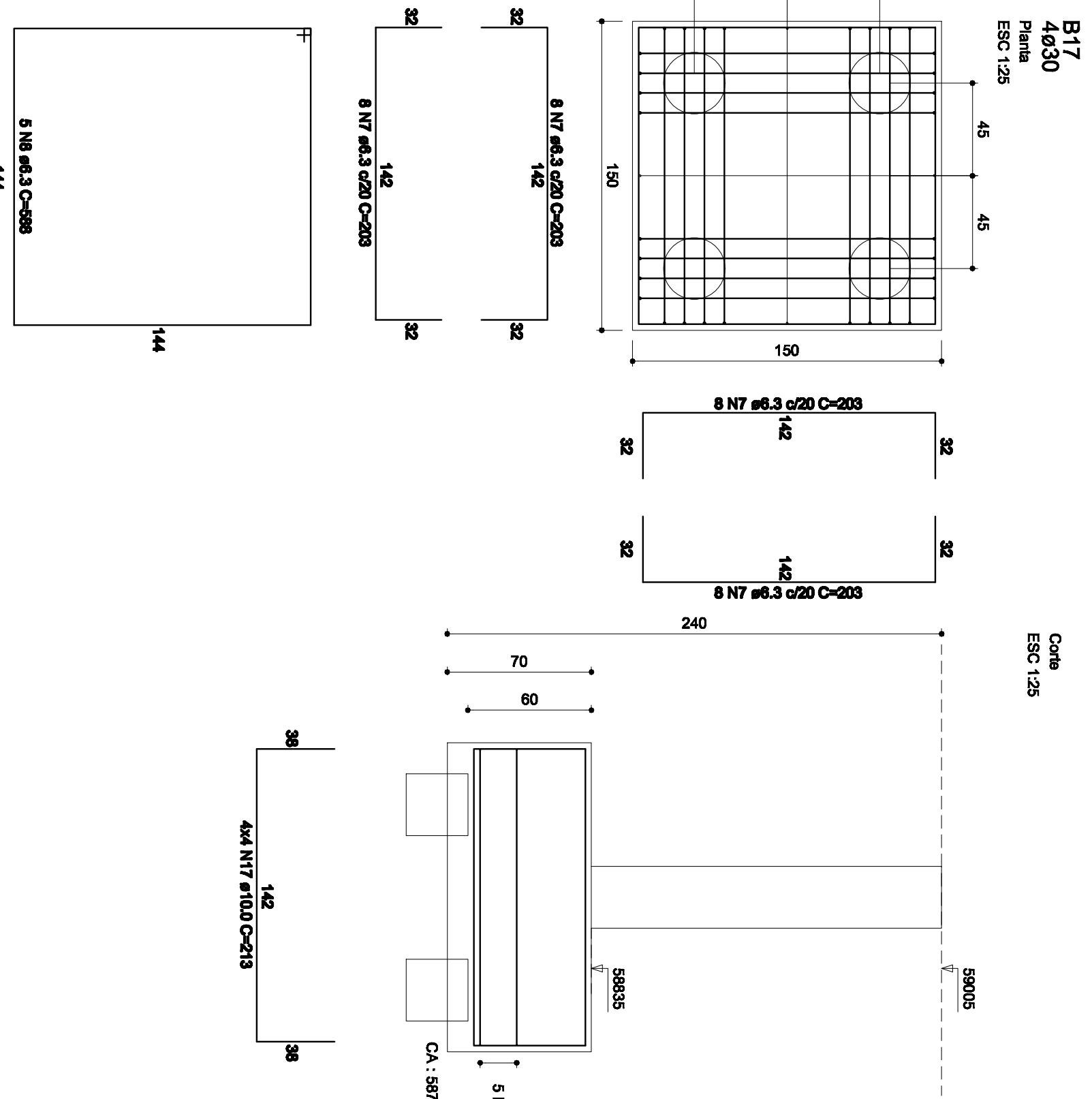
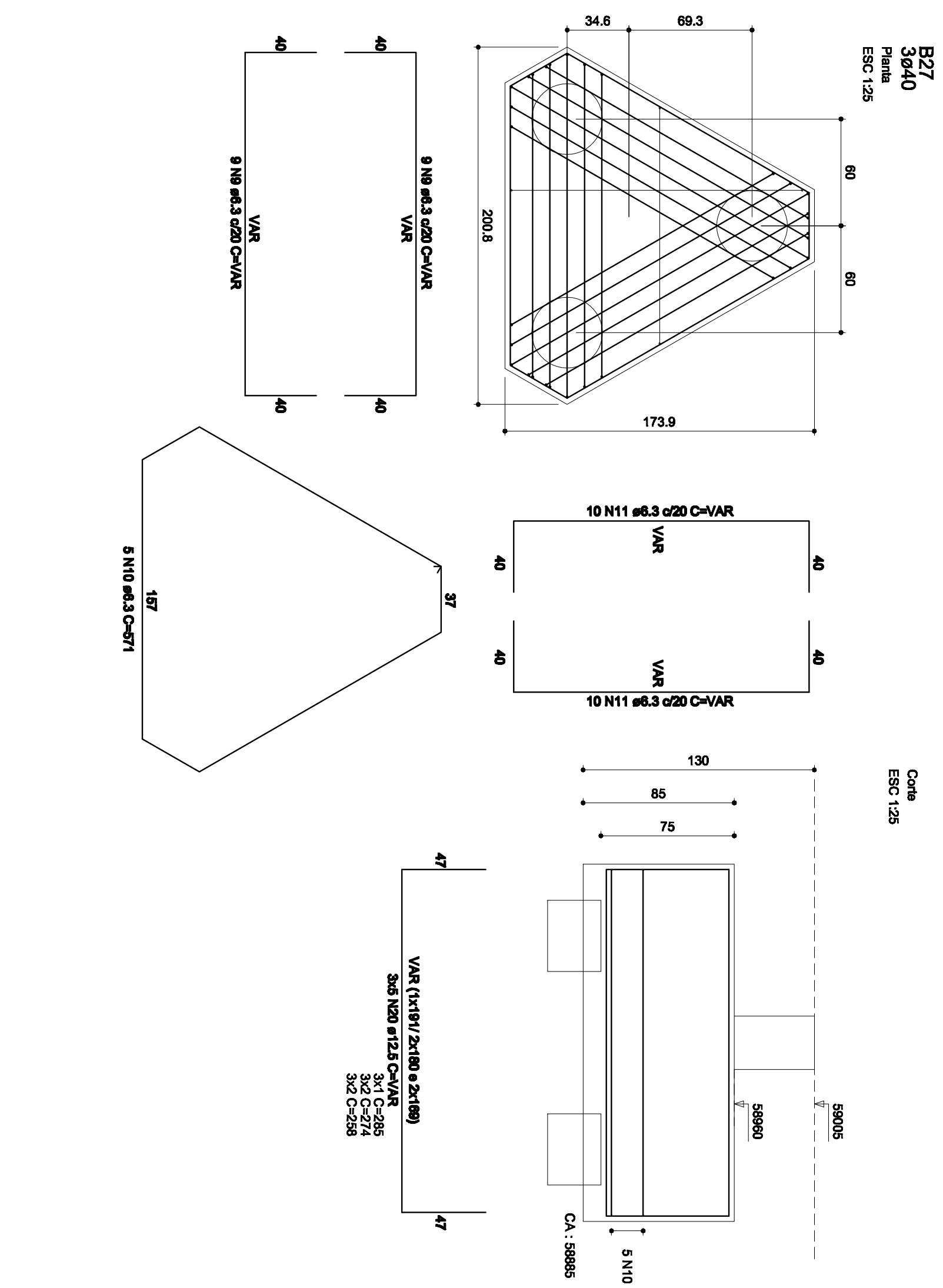


P1 B17 B35	P2 B18 B36	P3 B19 B37	P4 B20 B38	P5 B21 B39	P6 B22 B40	P7 B23 B41	P8 B24 B42	P9 B25 B43	P10 B26 B44	P11 B27 B45	P12 B28 B46	P13 B29 B47	P14 B30 B48	P15 B31 B49	P16 B32 B50	P17 B33 B51	P18 B34 B52	P19 B35 B53	P20 B36 B54	P21 B37 B55	P22 B38 B56	P23 B39 B57	P24 B40 B58	P25 B41 B59	P26 B42 B60	P27 B43 B61	P28 B44 B62	P29 B45 B63	P30 B46 B64	P31 B47 B65	P32 B48 B66	P33 B49 B67	P34 B50 B68	P35 B51 B69	P36 B52 B70	P37 B53 B71	P38 B54 B72	P39 B55 B73	P40 B56 B74	P41 B57 B75	P42 B58 B76	P43 B59 B77	P44 B60 B78	P45 B61 B79	P46 B62 B80	P47 B63 B81	P48 B64 B82	P49 B65 B83	P50 B66 B84	P51 B67 B85	P52 B68 B86	P53 B69 B87	P54 B70 B88	P55 B71 B89	P56 B72 B90	P57 B73 B91	P58 B74 B92	P59 B75 B93	P60 B76 B94	P61 B77 B95	P62 B78 B96	P63 B79 B97	P64 B80 B98	P65 B81 B99	P66 B82 B100	P67 B83 B101	P68 B84 B102	P69 B85 B103	P70 B86 B104	P71 B87 B105	P72 B88 B106	P73 B89 B107	P74 B90 B108	P75 B91 B109	P76 B92 B110	P77 B93 B111	P78 B94 B112	P79 B95 B113	P80 B96 B114	P81 B97 B115	P82 B98 B116	P83 B99 B117	P84 B100 B118	P85 B101 B119	P86 B102 B120	P87 B103 B121	P88 B104 B122	P89 B105 B123	P90 B106 B124	P91 B107 B125	P92 B108 B126	P93 B109 B127	P94 B110 B128	P95 B111 B129	P96 B112 B130	P97 B113 B131	P98 B114 B132	P99 B115 B133	P100 B116 B134	P101 B117 B135	P102 B118 B136	P103 B119 B137	P104 B120 B138	P105 B121 B139	P106 B122 B140	P107 B123 B141	P108 B124 B142	P109 B125 B143	P110 B126 B144	P111 B127 B145	P112 B128 B146	P113 B129 B147	P114 B130 B148	P115 B131 B149	P116 B132 B150	P117 B133 B151	P118 B134 B152	P119 B135 B153	P120 B136 B154	P121 B137 B155	P122 B138 B156	P123 B139 B157	P124 B140 B158	P125 B141 B159	P126 B142 B160	P127 B143 B161	P128 B144 B162	P129 B145 B163	P130 B146 B164	P131 B147 B165	P132 B148 B166	P133 B149 B167	P134 B150 B168	P135 B151 B169	P136 B152 B170	P137 B153 B171	P138 B154 B172	P139 B155 B173	P140 B156 B174	P141 B157 B175	P142 B158 B176	P143 B159 B177	P144 B160 B178	P145 B161 B179	P146 B162 B180	P147 B163 B181	P148 B164 B182	P149 B165 B183	P150 B166 B184	P151 B167 B185	P152 B168 B186	P153 B169 B187	P154 B170 B188	P155 B171 B189	P156 B172 B190	P157 B173 B191	P158 B174 B192	P159 B175 B193	P160 B176 B194	P161 B177 B195	P162 B178 B196	P163 B179 B197	P164 B180 B198	P165 B181 B199	P166 B182 B200	P167 B183 B201	P168 B184 B202	P169 B185 B203	P170 B186 B204	P171 B187 B205	P172 B188 B206	P173 B189 B207	P174 B190 B208	P175 B191 B209	P176 B192 B210	P177 B193 B211	P178 B194 B212	P179 B195 B213	P180 B196 B214	P181 B197 B215	P182 B198 B216	P183 B199 B217	P184 B200 B218	P185 B201 B219	P186 B202 B220	P187 B203 B221	P188 B204 B222	P189 B205 B223	P190 B206 B224	P191 B207 B225	P192 B208 B226	P193 B209 B227	P194 B210 B228	P195 B211 B229	P196 B212 B230	P197 B213 B231	P198 B214 B232	P199 B215 B233	P200 B216 B234	P201 B217 B235	P202 B218 B236	P203 B219 B237	P204 B220 B238	P205 B221 B239	P206 B222 B240	P207 B223 B241	P208 B224 B242	P209 B225 B243	P210 B226 B244	P211 B227 B245	P212 B228 B246	P213 B229 B247	P214 B230 B248	P215 B231 B249	P216 B232 B250	P217 B233 B251
------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	--------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

RESUMO DO AÇO			
AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	6.3	569.9	156.7
	8.0	37.9	16.5
	10.0	73.4	49.8
	12.5	112.1	118.9
PESO TOTAL			
CA50	341.9		

Vol. de concreto total = 8,53 m<sup>3</sup>  
Área de formas total = 29,04 m<sup>2</sup>

Vol. de concreto total = 8,53 m<sup>3</sup>  
Área de forma total = 29,04 m<sup>2</sup>



REVISÃO	DATA	DISTRIBUIÇÃO PARA REVISÃO

**ATENÇÃO**  
 A inscrição deve ser precedida pelo envio de uma fotocópia autenticada do diploma de graduação em Engenharia de Produção e de uma declaração assinada pelo(a) responsável, atestando a veracidade das informações prestadas.

**NÚCLEO DE GERENCIAMENTO DE PROJETOS DE OBRAS**

Pro-reitoria de Desenvolvimento Universitário  
 UNIVERSIDADE ESTADUAL DE CAMPINAS

ORÇ.: LABORATÓRIO K/XT/ELA, CONSTRUÇÃO

LOCAL: INSTITUTO DE FÍSICA - AV. BERTRAND RUSSEL - UNICAMP

CURSO DA OBRA: Física

**CBR - ENGENHARIA S/A LTDA**  
 Rua Bandeira 200, 15 - 22400-000 Duque-De-Caxias, RJ  
 CEP: 20.100-000 - Tel: (011) 2525-1100

REFERÊNCIA

**PROJETO ESTRUTURAL**

**BLOCOS DA FUNDAÇÃO - 1/2**

DATA	DISPENSO	ARGUMENTO	ESCALA
------	----------	-----------	--------

DATA	DISPNO	ANQNO	ESCALA
61-0720008		IFQWKN_EST09_Bloccos 1_P00.dmg	INDICADA

ESTR  
09/28